NASA's UNIVERSITY PROGRAM

ACTIVE PROJECTS

FISCAL YEAR 1997



Fortieth Anniversary

Pioneering the Future

Gary Gans, Project Manager

National Aeronautics and Space Administration
Office of Human Resources and Education
Education Division/FE
Washington, DC 20546-0001

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FOREWORD

As basic policy, NASA believes that colleges and universities should be encouraged to participate in the nation's space and aeronautics program to the maximum extent practicable. Indeed, universities are considered as partners with government and industry in the nation's aerospace program. NASA's objective is to have them bring their scientific, engineering, and social research competence to bear on aerospace problems and on the broader social, economic, and international implications of NASA's technical and scientific programs. It is expected that, in so doing, universities will strengthen both their research and their educational capabilities to contribute more effectively to the national well-being.

NASA field codes and certain Headquarters program offices provide funds for those activities in universities which contribute to the mission needs of that particular NASA element. Although NASA has no predetermined amount of money to devote to university activities, the effort funded each year is substantial. (See the bar chart on the next page). This annual report is one means of documenting the NASA-university relationship, frequently denoted, collectively, as NASA's University Program.

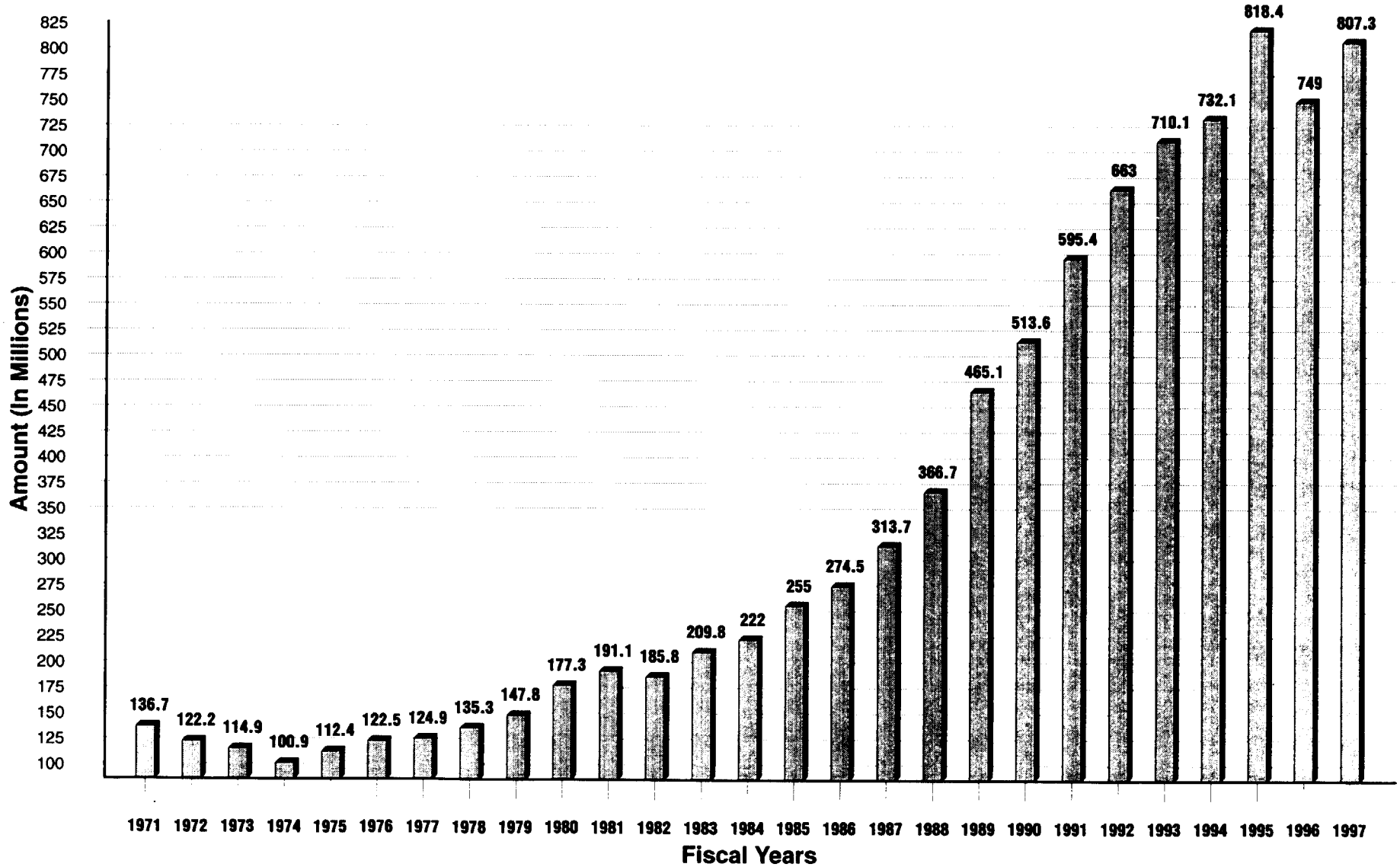
This report is consistent with agency accounting records, as the data is obtained from NASA's Financial and Contractual Status (FACS) System, operated by the Financial Management Division and the Procurement Office. However, in accordance with interagency agreements, the orientation differs from that required for financial or procurement purposes. Any apparent discrepancies between this report and other NASA procurement or financial reports stem from the selection criteria for the data.*

This report was prepared by the Education Division/FE, Office of Human Resources and Education, using a management information system which was modernized during FY 1993.

* Agreements which meet active criteria definition and have deobligations may result in agreements having negative obligations in the body of this publication.

NASA Obligations to Universities

Fiscal Years 1971-1997



NOTE: Excludes awards to California Institute of Technology for operation of the Jet Propulsion Laboratory.

FY 1971 includes $15.0M in awards to Draper Lab.
FY 1972 includes $5.7M in awards to Draper Lab.
FY 1973 includes $5.2M in awards to Draper Lab.
FY 1974 Draper Lab status changed from "university" to "nonprofit."

FIFTY EDUCATIONAL INSTITUTIONS LISTED ACCORDING TO TOTAL OBLIGATIONS – FY 1997

	INSTITUTION	OBLIGATIONS (THOUSANDS)	PERCENT
TOTALS		**$807,206**	**100.00**
1	Stanford University	72,355	8.96
2	Johns Hopkins University	49,847	6.17
3	University of Colorado – Boulder	41,298	5.11
4	Massachusetts Institute of Technology	34,269	4.24
5	University of Maryland – College Park	25,240	3.12
6	California Institute of Technology	19,977	2.47
7	University of California – Berkeley	19,776	2.44
8	University of Arizona	18,133	2.24
9	New Mexico State University – Las Cruces	15,921	1.97
10	University of Alaska – Fairbanks	14,631	1.81
11	University of Alabama – Huntsville	14,430	1.78
12	University of California – San Diego	13,609	1.68
13	Wheeling Jesuit College	11,756	1.45
14	Pennsylvania State University – University Park	10,553	1.30
15	University of Michigan – Ann Arbor	10,547	1.30
16	Columbia University	10,364	1.28
17	University of Alabama – Birmingham	9,926	1.22
18	University of Washington	9,332	1.15
19	University of California – Los Angeles	9,110	1.12
20	Harvard University	8,584	1.06
21	University of Wisconsin – Madison	8,518	1.05
22	Hampton University	7,515	0.93
23	Princeton University	6,315	0.78
24	University of New Hampshire – Durham	6,267	0.77
25	Utah State University	6,210	0.76
26	Georgia Institute of Technology	6,209	0.76
27	University of Texas – Austin	6,174	0.76
28	University of California – Santa Barbara	5,539	0.68
29	University of Hawaii – Manoa	5,421	0.67
30	Oregon State University	5,345	0.66
31	Virginia Polytechnic Institute & State University	5,326	0.65
32	University of Illinois – Urbana	5,288	0.65
33	Baylor College of Medicine	5,159	0.63
34	Oklahoma State University	5,089	0.63
35	Prairie View A&M University	5,049	0.62
36	Cornell University	5,036	0.62
37	University of California – Riverside	4,991	0.61
38	Carnegie-Mellon University	4,954	0.61
39	University of Iowa	4,942	0.61
40	Boston University	4,805	0.59
41	University of Florida	4,767	0.59
42	San Jose State University	4,570	0.56
43	University of Chicago	4,527	0.56
44	Ohio State University	4,518	0.55
45	University of Houston	4,504	0.55
46	Spelman College	4,413	0.54
47	Alabama A&M University	4,348	0.53
48	University of Southern California	4,265	0.52
49	Old Dominion University	4,105	0.50
50	University of Miami	4,102	0.50
	Other Colleges and Universities **	229,273	28.40

* Excludes awards to California Institute of Technology for operation of the Jet Propulsion Laboratory.

** Includes both foreign and domestic universities and colleges.

STATE AND U.S. TERRITORIES BY OBLIGATIONS
FISCAL YEAR 1997 (October 1, 1996 through September 30, 1997)

	STATE	OBLIGATIONS (WHOLE DOLLARS)	PERCENT
TOTALS		**$806,775,464**	**100.00**
1	California	171,780,918	21.29
2	Maryland	84,026,369	10.41
3	Massachusetts	52,537,295	6.51
4	Colorado	46,574,973	5.77
5	Texas	39,521,976	4.89
6	Alabama	35,124,602	4.35
7	New York	29,846,213	3.69
8	Virginia	25,026,401	3.10
9	Florida	22,771,842	2.82
10	New Mexico	22,022,455	2.72
11	Arizona	21,400,110	2.65
12	Pennsylvania	19,200,162	2.37
13	Georgia	15,997,159	1.98
14	Ohio	15,957,392	1.97
15	Alaska	14,675,332	1.81
16	West Virginia	14,627,052	1.81
17	Illinois	12,714,126	1.57
18	Michigan	11,752,224	1.45
19	North Carolina	11,401,483	1.41
20	New Jersey	10,861,269	1.34
21	District of Columbia	10,370,856	1.28
22	Washington	10,023,986	1.24
23	Wisconsin	9,631,755	1.19
24	Tennessee	8,294,962	1.02
25	Utah	7,923,916	0.98
26	New Hampshire	7,871,437	0.97
27	Hawaii	7,644,516	0.94
28	Iowa	6,470,626	0.80
29	Oklahoma	6,114,294	0.75
30	Louisiana	6,064,748	0.75
31	Oregon	5,885,760	0.72
32	Missouri	5,561,292	0.68
33	Montana	4,273,178	0.52
34	South Carolina	3,469,946	0.43
35	Indiana	3,447,682	0.42
36	Minnesota	3,428,804	0.42
37	Rhode Island	3,181,392	0.39
38	Kansas	3,095,036	0.38
39	Nebraska	2,284,568	0.28
40	Puerto Rico	2,022,135	0.25
41	Mississippi	1,980,183	0.24
42	Connecticut	1,956,794	0.24
43	Kentucky	1,719,184	0.21
44	North Dakota	1,333,015	0.16
45	South Dakota	916,106	0.11
46	Nevada	850,703	0.10
47	Wyoming	679,397	0.08
48	Arkansas	572,222	0.07
49	Idaho	542,839	0.06
50	Vermont	515,020	0.06
51	Maine	448,993	0.05
52	Delaware	380,776	0.04

* Starting in FY 1993, Active Actions with deobligations will be reported in this chart.

RESEARCH AND DEVELOPMENT PERCENT CHANGE REPORT 1993-1997 *

FIELDS OF SCIENCE	FY 1997 ($1000)	%CHANGE FY 96-97	FY 1996 ($1000)	%CHANGE FY 95-96	FY 1995 ($1000)	%CHANGE FY 94-95	FY 1994 ($1000)	% CHANGE FY 93-94	FY 1993 ($1000)
ALL FIELDS TOTAL	719,008	**8.20%**	664,507	**-4.34%**	694,690	**8.30%**	641,462	**6.19%**	604,042
Physical Sciences, Total	**290,413**	**-7.50%**	**313,954**	**13.29%**	**277,134**	**13.40%**	**244,391**	**0.43%**	**243,353**
Astronomy	137,522	**-17.15%**	165,989	**25.94%**	131,800	**18.74%**	110,996	**5.59%**	105,123
Chemistry	12,078	**280.65%**	3,173	**-45.57%**	5,830	**7.43%**	5,427	**-15.52%**	6,424
Physics	120,828	**3.86%**	116,336	**13.86%**	102,176	**-0.37%**	102,551	**-4.72%**	107,634
Physical Sciences, NEC **	19,985	**-29.77%**	28,456	**-23.77%**	37,329	**46.87%**	25,417	**5.15%**	24,172
Mathematical & Computer Sciences, Total	**24,538**	**-12.78%**	**28,133**	**-6.77%**	**30,176**	**34.30%**	**22,469**	**-14.93%**	**26,412**
Mathematics	2,141	**234.01%**	641	**-30.10%**	917	**33.09%**	689	**0.88%**	683
Computer Sciences	17,750	**-18.91%**	21,889	**-3.98%**	22,796	**35.46%**	16,828	**-13.31%**	19,411
Math. & Computer Sciences, NEC	4,647	**-17.06%**	5,603	**-13.29%**	6,462	**30.49%**	4,952	**-21.62%**	6,318
Environmental Sciences, Total	**195,315**	**45.61%**	**134,136**	**-14.09%**	**156,133**	**16.36%**	**134,183**	**0.59%**	**133,399**
Atmospheric Sciences	72,557	**36.73%**	53,064	**-14.17%**	61,826	**8.44%**	57,012	**4.06%**	54,786
Geological Sciences	16,684	**-8.74%**	18,281	**-13.36%**	21,101	**-6.23%**	22,502	**-8.32%**	24,544
Oceanography	11,722	**7.70%**	10,884	**-18.24%**	13,312	**-1.71%**	13,544	**1.77%**	13,308
Environmental Sciences, NEC	94,352	**81.77%**	51,907	**-13.34%**	59,894	**45.64%**	41,125	**0.89%**	40,761
Engineering Total	**108,159**	**10.07%**	**98,268**	**-28.84%**	**138,095**	**-12.74%**	**158,263**	**24.01%**	**127,621**
Aeronautical	38,605	**6.48%**	36,255	**-40.54%**	60,969	**-22.87%**	79,043	**71.19%**	46,172
Astronautical	18,158	**27.69%**	14,220	**0.56%**	14,141	**1.24%**	13,968	**5.39%**	13,254
Chemical	1,754	**-2.72%**	1,803	**-39.29%**	2,970	**7.69%**	2,758	**8.37%**	2,545
Civil	321	**73.51%**	185	**-85.02%**	1,235	**-1.44%**	1,253	**596.11%**	180
Electrical	8,751	**-7.93%**	9,505	**25.41%**	7,579	**-15.65%**	8,985	**4.08%**	8,633
Mechanical	10,103	**-16.06%**	12,036	**12.31%**	10,717	**-8.80%**	11,725	**0.18%**	11,704
Metallurgy and Materials	13,366	**-0.46%**	13,428	**-31.97%**	19,737	**17.99%**	16,728	**-19.59%**	20,804
Engineering, NEC	17,101	**57.82%**	10,836	**-47.77%**	20,747	**-12.84%**	23,803	**-2.16%**	24,329
Life Sciences, Total	**60,444**	**-5.19%**	**63,755**	**8.80%**	**58,600**	**39.69%**	**41,951**	**-4.07%**	**43,731**
Biological, Total	19,759	**-48.71%**	38,527	**21.89%**	31,608	**22.14%**	25,879	**-3.14%**	26,718
Biol. Sciences (Excluding Envir. Bio.)	18,101	**-48.18%**	34,931	**22.56%**	28,501	**28.22%**	22,228	**-10.52%**	24,840
Environmental Biology	890	**-58.97%**	2,169	**18.33%**	1,833	**38.34%**	1,325	**-2.50%**	1,359
Agricultural Sciences	768	**-46.18%**	1,427	**12.01%**	1,274	**-45.23%**	2,326	**348.17%**	519
Medical Sciences	5,789	**-28.13%**	8,055	**-16.97%**	9,701	**29.61%**	7,485	**-4.58%**	7,844
Life Sciences, NEC	34,896	**103.20%**	17,173	**-0.66%**	17,291	**101.36%**	8,587	**-6.35%**	9,169
Psychology Total	**5,726**	**58.00%**	**3,624**	**-12.65%**	**4,149**	**-18.62%**	**5,111**	**18.09%**	**4,328**
Biological Aspects	0	**ERR**	0	**-100.00%**	85	**16.44%**	73	**17.74%**	62
Social Aspects	1,211	**132.44%**	521	**96.60%**	265	**-33.25%**	397	**-19.47%**	493
Psychological Sciences, NEC	4,515	**45.50%**	3,103	**-18.32%**	3,799	**-18.14%**	4,641	**23.01%**	3,773
Social Sciences, Total	**267**	**97.78%**	**135**	**-67.31%**	**413**	**153.37%**	**163**	**-57.77%**	**386**
Economics	13	**0.00%**	0	**0.00%**	0	**0.00%**	0	**-100.00%**	55
History	10	**0.00%**	0	**0.00%**	0	**0.00%**	0	**0.00%**	0
Political Science	52	**0.00%**	0	**0.00%**	0	**0.00%**	0	**0.00%**	0
Social Sciences, NEC	192	**42.22%**	135	**-67.31%**	413	**153.37%**	163	**-50.76%**	331
Other Sciences, NEC	**34,146**	**51.75%**	**22,502**	**-24.97%**	**29,990**	**-14.15%**	**34,931**	**40.78%**	**24,812**

Table does not include awards to foreign universities or awards to California Institute of Technology for operation of the Jet Propulsion Laboratories.

* This report does not include other activities related to science and engineering, R&D plant and equipment, nor training grants. ** NEC means Not Elsewhere Classified.

* This chart does not include agreements with Fiscal Year obligations less than zero.

Prior year's data are reviewed for consistency, and when necessary, are revised. Prior year's data should be restricted to this chart.

FY1997 OBLIGATIONS BY FIELD OF SCIENCE OR ENGINEERING

			% OF ALL SCI.&ENGR % ARE ROUNDED
ENGINEERING	**Total**	**%**	
41-AERONAUTICAL	$ 41,150,761	35%	
42-ASTRONAUTICAL	$ 18,331,167	15%	
43-CHEMICAL	$ 2,130,626	2%	
45-ELECTRICAL	$ 9,135,736	8%	
46-MECHANICAL	$ 11,033,869	9%	
47-METALLURGY&MATRIALS	$ 13,527,980	11%	
49-ENGINEERING NEC*	$ 22,773,031	19%	
Grand Total	**$ 119,083,170**		**15%**
PHYSICAL SCIENCES	**Total**	**%**	
11-ASTRONOMY	$ 141,797,123	48%	
12-CHEMISTRY	$ 12,219,532	4%	
13-PHYSICS	$ 120,531,396	41%	
19-PHYS SCI-NEC*	$ 21,438,576	7%	
Grand Total	**$ 295,986,627**		**37%**
MATH/COMPUTERS	**Total**	**%**	
21-MATHEMATICS	$ 2,872,226	11%	
22-COMPUTER SCI.	$ 19,026,221	70%	
29--MATH/COMP NEC*	$ 5,198,163	19%	
Grand Total	**$ 27,096,610**		**3%**
LIFE SCIENCES	**Total**	**%**	
51-BIOLOGICAL SCI	$ 22,059,101	34%	
54-ENV. BIOLOGY	$ 1,076,657	2%	
55-AGRIC. SCIENCES	$ 857,720	1%	
56-MEDICAL SCIENCES	$ 6,002,008	9%	
59-LIFE SCIENCES,NEC**	$ 35,559,460	54%	
Grand Total	**$ 65,554,946**		**8%**
SOCIAL SCIENCES	**Total**	**%**	
71-ANTHROPOLOGY	$ 12,500	3%	
73-HISTORY	$ 63,674	16%	
76-SOCIOLOGY	$ 52,192	13%	
79-SOCIAL SCIENCE,NEC*	$ 278,886	68%	
Grand Total	**$ 407,252**		**0%**
ENVIRONMENTAL SCIENCES	**Total**	**%**	
31-ATMOSHERIC SCIENCES	$ 76,116,931	37%	
32-GEOLOGICAL SCIENCES	$ 18,698,470	9%	
33-OCEANOGRAHY	$ 12,265,280	6%	
39-ENVIRONMENTAL SCI,NEC*	$ 96,965,929	48%	
Grand Total	**$ 204,046,610**		**25%**
PSYCHOLOGY	**Total**	**%**	
62-SOCIAL ASPECTS	$ 1,567,908	26%	
69-PSYCHOLOGY,NEC*	$ 4,562,579	74%	
Grand Total	**$ 6,130,487**		**1%**
OTHER SCIENCES**	**Total**	**%**	
99-ALL DISCIPLINES	$ 88,973,052	100%	
Grand Total	**$ 88,973,052**		**11%**
GRAND TOTAL OF ALL SCIENCE &ENGINEERING:	***$ 807,278,754***		**100%**

*NOT ELSEWHERE CLASSIFIED

**CANNOT BE CLASSIFIED WITHIN THE THE FIELDS

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This report includes data on projects active during Fiscal Year 1997.

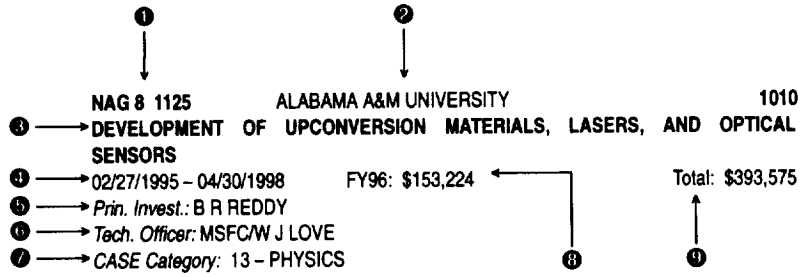
Alabama 1
Alaska 18
Arizona 21
Arkansas 42
California 43
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Delaware 156
District of Columbia 158
Florida 165
Georgia 184
Hawaii 198
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USER'S GUIDE

The University Program Report provides current information and related statistics for each grant/contract/cooperative agreement active during the report period. The following guidance is provided as an aid to the reader in readily locating material of interest and in optimizing the use of this document.

I. Typical Citation



KEY

1. Agreement number*
2. Institution name
3. Brief work description
4. Approximate period of performance
5. Principal investigator(s) at the educational institution
6. NASA Technical Officer(s) and organizational location
7. CASE Field of Science and Engineering code and name
8. Amount (if any) actually provided during the indicated fiscal year
9. Total amount actually provided during the indicated period of performance

* Uniquely identifies project. Prefixes denote type of instrument as follows:

Grants: NAG, NAGW, NGF, NGT, NGL, NGR, NSG
Cooperative Agreements: NCC, NCCW
Contracts: DEN, NAS, NASR, NASW, NSR
Space Act Agreements: NCA

II. NASA Installations

NASA installations are included in the citation as abbreviations (item 7). The following listing of installations will be useful to those desiring further information on specific projects.

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A full listing of the suffix letters and information on NASA's organizational structure may be found in the NASA Headquarters Telephone Directory. The directory is for sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

III. CASE Fields of Science and Engineering

The National Science Foundation (NSF) operates a government-wide system (CASE) for collecting and analyzing data on support to colleges and universities. Participating agencies report annually to NSF which in turn issues Support to Universities, Colleges and Selected Nonprofit Institutions. The CASE fields, used in the extensive tabulations contained in that document, form the only consistent classification systems for government sponsored research. The fields are listed in full in the Appendix.

IV. Cross-Index

The cross-indexed Appendix provides rapid access to all projects in a particular area of endeavor, as defined by the CASE fields. This listing is also easily used to determine the institutions and principal investigators conducting NASA projects in a field.

ALABAMA

NAG 2 1130 ALABAMA A&M UNIVERSITY **1000**
IRON–ION INDUCED LOW DOSE MUTAGENESIS
06/11/1997 – 06/30/1998 FY97: $119,961 Total: $119,961
Prin. Invest.: P G KALE
Tech. Officer: ARC/A J HATCH, ARC/P X CALLAHAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 2 1160 ALABAMA A&M UNIVERSITY **1001**
ADAPTATION OF LEAF SPECTROREFLECTOMETRY & NEURAL N ETWROK IMAGE ANALYSIS APPROACHES FOR DETETION &..
09/07/1997 – 08/31/1998 FY97: $129,976 Total: $129,976
Prin. Invest.: C A BEYL, G C SHARMA
Tech. Officer: ARC/M H KLISS, ARC/D L BUBENHEIM
CASE Category: 55 – AGRICULTURE

NAG 3 1408 ALABAMA A&M UNIVERSITY **1002**
INTEGRATED OPTICS IN THIN FILMS OF POLYMERS & ORGA NIC MATERIALS
01/13/1993 – 03/31/1997 FY97: $33,600 Total: $738,600
Prin. Invest.: P VENKETESWARLU, H ABDELDAYEM
Tech. Officer: LERC/G ADAMOUSKY, LERC/G M BEHEIM
CASE Category: 13 – PHYSICS

NAG 3 1429 ALABAMA A&M UNIVERSITY **1003**
DIRECT OBSERVATION OF CRYSTAL GROWTH FROM SOLUTION USING OPTICAL INVEST OS A GROWING CRYSTAL FACE
01/07/1993 – 12/31/1997 FY97: $0 Total: $462,412
Prin. Invest.: R B LAL
Tech. Officer: LERC/T GLASGOW
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1956 ALABAMA A&M UNIVERSITY **1004**
OPTICAL SENSORS BASED ON SINGLE ARM THIN FILM WAVE GUIDE INTERFEROMETER
08/19/1996 – 10/30/1999 FY97: $76,000 Total: $86,000
Prin. Invest.: P VENKATESWARLY, S S SARKISOV
Tech. Officer: LERC/G ADAWOVSKY
CASE Category: 13 – PHYSICS

NAG 3 2020 ALABAMA A&M UNIVERSITY **1005**
DEVELOPMENT OF STABLE ELEVATED TEMPERATURE SILICON CARBINDE SENSORS
03/06/1997 – 11/05/1997 FY97: $125,000 Total: $125,000
Prin. Invest.: J O ADEYEYE, NONE
Tech. Officer: LERC/J R SCOTT
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 8 125 ALABAMA A&M UNIVERSITY **1006**
GROWTH CHARACTERISTICS OF ORGANIC CRYSTALS FOR NON–LINEAR OPTICAL APPLICATIONS
04/24/1989 – 03/21/1997 FY97: $0 Total: $435,282
Prin. Invest.: M D AGGARWAL
Tech. Officer: MSFC/J L RANDALL, MSFC/R J WALKER
CASE Category: 13 – PHYSICS

NAG 8 201 ALABAMA A&M UNIVERSITY **1007**
NUMERICAL INVESTIGATIONS IN THE BACKFLOW REGION OF A VACUUM PLUME
08/30/1991 – 02/21/1997 FY97: $0 Total: $360,992
Prin. Invest.: LIAU
Tech. Officer: MSFC/G FICHTL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 203 ALABAMA A&M UNIVERSITY **1008**
EFFECT OF HYDROGEN ON N BASED SUPERALLOYS
12/16/1991 – 11/30/1995 FY97: –$5,721 Total: $181,995
Prin. Invest.: R B LAL, M D AGGARWAL
Tech. Officer: MSFC/G H FICHTL
CASE Category: 13 – PHYSICS

NAG 8 1039 ALABAMA A&M UNIVERSITY **1009**
ORGANIC FIBER OPTICS SENSORS
05/02/1994 – 08/12/1996 FY97: –$1,000 Total: $135,854
Prin. Invest.: C LOWE
Tech. Officer: MSFC/R WALKER
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAG 8 1125 ALABAMA A&M UNIVERSITY **1010**
DEVELOPMENT OF UPCONVERSION MATERIALS, LASERS, AND OPTICAL SENSORS
02/27/1995 – 04/30/1998 FY97: $153,224 Total: $393,575
Prin. Invest.: B R REDDY
Tech. Officer: MSFC/W J LOVE
CASE Category: 13 – PHYSICS

NAG 8 1129 ALABAMA A&M UNIVERSITY **1011**
CRYSTALS STUDY
03/10/1995 – 12/31/1996 FY97: $0 Total: $85,289
Prin. Invest.: R B LAL
Tech. Officer: MSFC/B PENN, MSFC/W LOVE
CASE Category: 13 – PHYSICS

NAG 8 1172 ALABAMA A&M UNIVERSITY **1012**
FOR RESEARCH "ELLIPSOMETRIC MEASUREMENT OF ORGANIC AND NON–LINEAR OPTICAL MATERIALS
09/30/1996 – 09/29/1998 FY97: $0 Total: $83,726
Prin. Invest.: K J CHANG
Tech. Officer: MSFC/A C BEAM
CASE Category: 12 – CHEMISTRY

NAG 8 1192 ALABAMA A&M UNIVERSITY **1013**
A CALLOBORATIVE PROGRAM FOR ENHANCING STUDENTS WITH DISABLITIES
09/13/1995 – 11/14/1998 FY97: $160,938 Total: $210,938
Prin. Invest.: D CRAWFORD
Tech. Officer: MSFC/S MILLER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 1335 ALABAMA A&M UNIVERSITY **1014**
R/S "AN INNOVATIVE APPROACH FOR VORTEX TUBE FLOW ANALYSIS AND APPLICATION IN FILM COOLING"
03/26/1997 – 03/25/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: K HE
Tech. Officer: MSFC/A CHOW
CASE Category: 13 – PHYSICS

NAG 8 1365 ALABAMA A&M UNIVERSITY **1015**
R/S "AN UNCONVENTIONAL THREE-DIMENSIONAL COMPU- TATION OF TRANSITIONAL AERODYNAMICS FOR RLV"
05/28/1997 – 05/31/1999 FY97: $178,374 Total: $178,374
Prin. Invest.: G S KUAB
Tech. Officer: MSFC/L FOSTER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 8 1366 ALABAMA A&M UNIVERSITY **1016**
R/S "CURRICULUM ADJUSTMENTS IN MATHEMATICS FOR SCIENCE & ENGINEERING PROGRAMS"
05/28/1997 – 05/31/1999 FY97: $189,432 Total: $189,432
Prin. Invest.: E C TEMPLE
Tech. Officer: MSFC/A HENDERSON
CASE Category: 21 – MATHEMATICS

NAG 8 1390 ALABAMA A&M UNIVERSITY **1017**
R/S "BULK AND THIN FILM ORGANIC NONLINEAR OPTICAL CRYSTALS FOR DEVICES AND MICROGRAVITY PROCESSING"
07/23/1997 – 07/22/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: M D AGGARWAL
Tech. Officer: MSFC/D FRAZIER, MSFC/W J LOVE
CASE Category: 13 – PHYSICS

NAG 8 1400 ALABAMA A&M UNIVERSITY **1018**
EFFECT OF DOPANTS ON THE GROWTH & PROPERTIES OF MIXED ORGANIC CRYSTALS FOR NON-LINEAR OPTICAL APPS
09/19/1997 – 08/31/1998 FY97: $99,822 Total: $99,822
Prin. Invest.: B PENN
Tech. Officer: MSFC/B PENN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 9 758 ALABAMA A&M UNIVERSITY **1019**
ENUMERATION, DETECTION OF HETEROTROPHIC BACTERIA IN POTABLE WTERS FOR THE SPACE STATION
09/16/1994 – 09/01/1997 FY97: $0 Total: $164,000
Prin. Invest.: M G TADROS
Tech. Officer: JSC/R L SAUER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAS 8 36634 ALABAMA A&M UNIVERSITY **1020**
SOLUTION CRYSTAL GROWTH IN LOW-GRAVITY
09/25/1986 – 12/31/1995 FY97: -$32,704 Total: $1,629,372
Prin. Invest.: R B LAL
Tech. Officer: MSFC/R C RUFF
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 4 14 ALABAMA A&M UNIVERSITY **1021**
SIGNAL PROCESSING ALGORITHM SENSOR
01/20/1995 – 09/30/1997 FY97: $29,932 Total: $107,908
Prin. Invest.: S VON LAVEN
Tech. Officer: DFRC/R K BOGUE
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NCC 8 27 ALABAMA A&M UNIVERSITY **1022**
CHARACTERIZATION OF ORGANIC SPHERICAL POLYMER-DYE LASER MATERIALS AND THEIR LASER ACTION
09/07/1993 – 10/31/1996 FY97: $0 Total: $54,407
Prin. Invest.: P VENKATESWARLU
Tech. Officer: MSFC/G H FICHTL, MSFC/R J WALKER
CASE Category: 13 – PHYSICS

NCC 8 140 ALABAMA A&M UNIVERSITY **1023**
R/S "CENTER FOR HYDROLOGY, SOIL CLIMATOLOGY AND REMOTE SENSING (HSCARS)"
07/21/1997 – 06/30/1998 FY97: $1,525,000 Total: $1,525,000
Prin. Invest.: T L COLEMAN
Tech. Officer: MSFC/L GREENWOOD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCCW 84 ALABAMA A&M UNIVERSITY **1024**
CENTER FOR HYDROLOGY, SOIL CLIMATOLOGY AND REMOTE SENSING
08/09/1995 – 06/30/1997 FY97: $1,322,050 Total: $2,684,100
Prin. Invest.: T L COLEMAN
Tech. Officer: HQ/B L WHITE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 8 52811 ALABAMA A&M UNIVERSITY **1025**
RESEARCH PROGRAM
09/25/1995 – 08/31/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: P B LAI
Tech. Officer: MSFC/D FRAZIER
CASE Category: 13 – PHYSICS

NGT 8 52818 ALABAMA A&M UNIVERSITY **1026**
GRAD STUDENT RESEACHER'S PROGRAM
07/24/1996 – 06/30/1999 FY97: $22,000 Total: $44,000
Prin. Invest.: D P PARKER
Tech. Officer: MSFC/J BILBRO
CASE Category: 21 – MATHEMATICS

NAG 3 1154 AUBURN UNIVERSITY **1027**
HIGH PERFORMANCE ELECTROCHEMICAL SYSTEMS UTILIZING COMPOSITE ELECTRODE STRUCTURES
03/22/1990 – 10/31/1997 FY97: $0 Total: $612,250
Prin. Invest.: B J TATARCHUK
Tech. Officer: LERC/D L BRITTON, LERC/M A REID
CASE Category: 43 – CHEMICAL ENGR

NAG 3 1507 AUBURN UNIVERSITY **1028**
INFLUENCE OF BACKUP BEARINGS & SUPPORT STRUCTURE D YNAMICS ON THE BEHAVIOR OF ROTORS WITH ACTIVESUP
06/29/1993 – 09/17/1996 FY97: $0 Total: $98,071
Prin. Invest.: G T FLOWERS
Tech. Officer: LERC/C LAWRENCE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1882 AUBURN UNIVERSITY **1029**
INVESTIGATION OF THERMAL STRESS CONVECTION IN MON ISOTHERMAL GASES UNDER MICROGRAVITY CONDITIONS
05/21/1996 – 05/31/1998 FY97: $50,000 Total: $100,000
Prin. Invest.: D W MACKOWSKI
Tech. Officer: LERC/B S SINGH
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1930 AUBURN UNIVERSITY **1030**
MINIATURE ELECTRIC PROPULSION UNITS FOR SMALLEST A PPLICATIONS
07/29/1996 – 07/31/1998 FY97: $64,998 Total: $74,998
Prin. Invest.: M F ROSE, S A MERRYMAN
Tech. Officer: LERC/J A HAMLEY, LERC/L R PINERO
CASE Category: 45 – ELECTRICAL ENGR

NAG 8 1019 AUBURN UNIVERSITY **1031**
MINORITY FOCUS PROGRAM
01/25/1994 – 05/26/1997 FY97: –$29,488 Total: $190,671
Prin. Invest.: L MOORE
Tech. Officer: MSFC/J HALE, MSFC/F SIX
CASE Category: 22 – COMPUTER SCIENCE

NAG 8 1040 AUBURN UNIVERSITY **1032**
OCTAVE POST PROCESSOR FOR COMPUTER AIDED CONTROL SYSTEM DESIGN
03/25/1994 – 12/31/1996 FY97: $0 Total: $77,155
Prin. Invest.: A S HODEL
Tech. Officer: MSFC/M E JACKSON, MSFC/S G RYAN
CASE Category: 22 – COMPUTER SCIENCE

NAG 8 1058 AUBURN UNIVERSITY **1033**
DEVELOPING CHEMICAL DOUBLE LAYER TECHNOLOGY FOR ELECTRICAL ACTUATION APPLICATIONS
06/09/1994 – 04/14/1997 FY97: $10,005 Total: $263,000
Prin. Invest.: S A MERRYMAN
Tech. Officer: MSFC/D K HALL, MSFC/S L LUNA
CASE Category: 45 – ELECTRICAL ENGR

NAG 8 1295 AUBURN UNIVERSITY **1034**
MODAL TESTING AND ANALYSIS OF SPACE STATION ELEMENT SIMULATOR
05/09/1996 – 11/16/1997 FY97: $12,623 Total: $42,493
Prin. Invest.: M A CUTCHINS
Tech. Officer: MSFC/F BUGG, MSFC/P S BOOKOUT
CASE Category: 41 – AERONAUTICAL ENGNR

NAGW 1192 AUBURN UNIVERSITY **1035**
CENTER FOR COMMERCIAL DEVELOPMENT OF SPACE
11/16/1987 – 09/30/1997 FY97: $39,500 Total: $20,402,513
Prin. Invest.: R ASKEW
Tech. Officer: HQ/W A ORAN, HQ/R P WHITTEN
CASE Category: 42 – ASTRONAUTICAL ENGR

NAGW 4005 AUBURN UNIVERSITY **1036**
"ION HOLES AND WEAK DOUBLE LAYERS IN A MAGNETIZED PLASMA"
05/11/1994 – 05/31/1997 FY97: –$3,251 Total: $154,249
Prin. Invest.: S F KNOWLTON
Tech. Officer: HQ/E C WHIPPLE, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAS 8 39131 AUBURN UNIVERSITY **1037**
ESSENTIAL ENGINEERING SERVICES RESEARCH & DEVELOPM CAPABILITY
04/26/1991 – 04/02/1996 FY97: –$17,961 Total: $1,421,881
Prin. Invest.: J OWEN
Tech. Officer: MSFC/L J SMITH, MSFC/D HIPP
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 3 511 AUBURN UNIVERSITY **1038**
CENTER FOR THE COMMERCIAL DEVELOPMENT OF SPACE: SPACE POWER & ADVANCED ELECTRONICS
11/01/1996 – 10/31/2001 FY97: $1,100,000 Total: $1,100,000
Prin. Invest.: D W BRANDHORST, JR., M F ROSE
Tech. Officer: LERC/J E DUDENHOEFER, LERC/R J SOVIE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 4 103 AUBURN UNIVERSITY **1039**
ROTATIONALLY ADAPTIVE FLUTTER TEST SURFACE NEW AWARD
02/01/1996 – 01/30/1998 FY97: $0 Total: $40,000
Prin. Invest.: D M BARRETT
Tech. Officer: DFRC/D F VORACEK
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 8 67 AUBURN UNIVERSITY **1040**
COLD–FLOW STUDY OF LOW FREQUENCY PRESSURE INSTABIL ITY IN HYBRID ROCKET MOTORS
01/10/1995 – 01/09/1997 FY97: –$587 Total: $22,413
Prin. Invest.: R M JENKINS
Tech. Officer: MSFC/J VARGAS
CASE Category: 46 – MECHANICAL ENGR

NCC 8 69 AUBURN UNIVERSITY **1041**
AUBURN INDUSTRIAL EXTENSION SERVICE
01/26/1995 – 11/30/1997 FY97: $147,917 Total: $504,955
Prin. Invest.: H BURDG
Tech. Officer: MSFC/K FERNANDEZ, MSFC/B HAYES
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 8 106 AUBURN UNIVERSITY **1042**
RS/ANALYSIS & EVALUATION OF POTENTIAL POWER SYSTEMS
07/24/1996 – 06/30/1997 FY97: $35,030 Total: $50,030
Prin. Invest.: S A MERRYMAN
Tech. Officer: MSFC/J T HOWELL
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 8 107 AUBURN UNIVERSITY **1043**
RS/A LIGHT GAS GUN APPROACH TO ACHIEVING FIRST SPACE ACCELERATION FOR THE HIGHLY REUSABLE SPACE
07/24/1996 – 10/31/1997 FY97: $35,035 Total: $50,035
Prin. Invest.: M ROSE
Tech. Officer: MSFC/J T HOWELL
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 8 128 AUBURN UNIVERSITY **1044**
FOR RESEARCH: "AUBURN COMMERCIAL SPACE CENTER FOR THE SOLIDIFICATION DESIGN/CASTNET PROGRAM"
01/28/1997 – 10/31/1997 FY97: $470,000 Total: $470,000
Prin. Invest.: J R WATKINS
Tech. Officer: MSFC/J R WATKINS
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 9 27 AUBURN UNIVERSITY **1045**
EVALUATION OF HYPERVELOCITY IMPACT CAPTURE MEDIA AT VELOCITIES ON 10KM/S
06/21/1994 – 06/30/1996 FY97: –$885 Total: $21,855
Prin. Invest.: M F ROSE
Tech. Officer: JSC/M J CINTALA
CASE Category: 13 – PHYSICS

NGT 51246 AUBURN UNIVERSITY **1046**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/14/1994 – 12/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: S M RAO
Tech. Officer: LARC/L EVANS
CASE Category: 45 – ELECTRICAL ENGR

NGT 70384 AUBURN UNIVERSITY **1047**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
08/25/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: S C SINHA
Tech. Officer: HQ/D K RUSSELL
CASE Category: 46 – MECHANICAL ENGR

NGT 70398 AUBURN UNIVERSITY **1048**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
09/29/1994 – 08/07/1997 FY97: $0 Total: $8,322
Prin. Invest.: J R HANSEN
Tech. Officer: HQ/D K RUSSELL
CASE Category: 73 – HISTORY

NGT 1 52120 AUBURN UNIVERSITY **1049**
GRADUATE STUDENT RESEARCHER PROGRAM (GSRP) URM&D FOCUS
06/29/1995 – 06/30/1998 FY97: $11,000 Total: $55,001
Prin. Invest.: G T FLOWERS, M A LAWEN
Tech. Officer: LARC/R G KVATERNIK
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 8 52826 AUBURN UNIVERSITY **1050**
GRAD STUDENT RESEARCHERS PROGRAM FOR VALETA C. CHANCEY
09/20/1996 – 09/16/1999 FY97: $22,000 Total: $44,000
Prin. Invest.: V C CHANEEY
Tech. Officer: MSFC/S RYAN
CASE Category: 46 – MECHANICAL ENGR

NAG 8 1280 BIRMINGHAM SOUTHERN COLLEGE **1051**
JOVE RESEARCH
01/21/1997 – 08/31/1998 FY97: $21,000 Total: $21,000
Prin. Invest.: K B BACHMANN
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 13 – PHYSICS

NCC 8 118 JOHN C. CALHOUN STATE COMMUNITY COLLEGE **1052**
RESEARCH "WORK EXPERIENCE MENTORING PROGRAM"
09/30/1996 – 03/31/1998 FY97: $25,000 Total: $25,000
Prin. Invest.: R CARPENTER
Tech. Officer: MSFC/S PAYNE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 1238 MILES COLLEGE **1053**
JOINT VENTURE IN SPACE SERVICE (JOVE)
10/31/1996 – 05/31/1998 FY97: $38,000 Total: $38,000
Prin. Invest.: D B BHARWANI
Tech. Officer: MSFC/E COTHRAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 4323 MILES COLLEGE **1054**
MILES COLLEGE LEARNING ABOUT PLANTS PROJECT (MCLAA P)
02/24/1995 – 05/31/1997 FY97: $0 Total: $127,196
Prin. Invest.: C JONES
Tech. Officer: HQ/M A JONES
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 8 1300 OAKWOOD COLLEGE **1055**
R/S THE DEVELOPMENT, ASSESSMENT, VALIDATION & EN– HANCEMENT (DAVE) OF VIRTUAL REALITY FOR HUMAN ANAT
07/09/1996 – 07/14/1997 FY97: $0 Total: $78,577
Prin. Invest.: K BENN–MARSHALL
Tech. Officer: MSFC/J HALE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 3969 SELMA UNIVERSITY **1056**
NAGW–3969/B/SELMA UNIV/36 MONTHS/FEASIBILITY OF DEGRADATION OF CHLORINATED SOLVENTS
05/14/1994 – 05/31/1997 FY97: $0 Total: $342,500
Prin. Invest.: K D CHAPATWALA
Tech. Officer: JPL/R M TRUNZO
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4588 STILLMAN COLLEGE **1057**
PRECOLLEGE AWARDS FOR EXCELLENCE IN MATHEMATICS, S AND TECHNOLOGY
07/10/1997 – 04/30/1998 FY97: $98,766 Total: $98,766
Prin. Invest.: J CHRISTIAN
Tech. Officer: GSFC/M STOUTSENBERGHER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4486 STILLMAN COLLEGE **1058**
STILLMAN COLLEGE'S PRECOLLEGE AWARDS FOR EXCELL– ENCE IN MATH, SCIENCE, ENGINEER, AND TECH.
05/04/1995 – 04/30/1997 FY97: $74,049 Total: $172,816
Prin. Invest.: J WASHINGTON
Tech. Officer: HQ/B L WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 4578 TRENHOLM STATE TECHNICAL COLLEGE **1059**
HIGH SCHOOL STUDENT SCIENCE ENRICHMENT PROGRAM
05/13/1997 – 04/30/1998 FY97: $185,105 Total: $185,105
Prin. Invest.: E ROSS
Tech. Officer: GSFC/L RANDOLPH
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4089 TRENHOLM STATE TECHNICAL COLLEGE **1060**
SCIENCE ENRICHMENT PROGRAM
07/28/1994 – 04/30/1997 FY97: $0 Total: $531,973
Prin. Invest.: E C ROSS
Tech. Officer: HQ/C GRAVES
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 1204 TROY STATE UNIVERSITY **1061**
JOVE
09/22/1995 – 08/31/1998 FY97: $56,000 Total: $87,000
Prin. Invest.: D J BATEMAN, D
Tech. Officer: MSFC/D SIX
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 1 1549 TUSKEGEE UNIVERSITY **1062**
INVESTIGATION OF TECHNIQUES FOR SPECTRAL ANALYSIS AND ESTIMA– TION OF TURBULENCE SCALES FROM RANDOMLY
11/04/1993 – 11/03/1996 FY97: $0 Total: $145,000
Prin. Invest.: D SREE
Tech. Officer: LARC/S O KIELGARD
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1865 TUSKEGEE UNIVERSITY **1063**
IDENTIFICATION OF SURFACE AND NEAR SURFACE DEFECTS AND DAMAGE EVALUATION BY LASER SPECKLE
09/10/1996 – 09/09/1998 FY97: $94,309 Total: $194,015
Prin. Invest.: M A SEIF
Tech. Officer: LARC/R ROGOSKI
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 2 4006 TUSKEGEE UNIVERSITY **1064**
A LOW COST SIMULATION SYSTEM TO DEMONSTRATE PILOT INDUCED OSCILLATION PHENOMENA
05/12/1994 – 01/30/1997 FY97: $0 Total: $83,667
Prin. Invest.: S F ALI
Tech. Officer: DFRC/L SCHILLING, DFRC/K NORLIN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1388 TUSKEGEE UNIVERSITY **1065**
SPUTTERING EROSION ON THE ION THRUSTER
12/04/1992 – 01/31/1997 FY97: $0 Total: $358,819
Prin. Invest.: P K RAY
Tech. Officer: LERC/V K RAWLIN
CASE Category: 13 – PHYSICS

NAG 3 1582 TUSKEGEE UNIVERSITY **1066**
SPUTTERING EROUSION OF INSULATOR WALLS IN THE STAT IONARY PLASMA THURSTER
03/22/1994 – 09/23/1997 FY97: $0 Total: $292,793
Prin. Invest.: P K RAY
Tech. Officer: LERC/E J PENCIL
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1904 TUSKEGEE UNIVERSITY **1067**
AN EXPERIMENTA INVEST OF EFF OF SPACE PLASMA ON SP ACECRAFT & SPACE POWER SYS MATS
07/01/1996 – 09/30/1997 FY97: $0 Total: $55,896
Prin. Invest.: C V DORESWAMY
Tech. Officer: LERC/D C FERGUSON
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1977 TUSKEGEE UNIVERSITY **1068**
CHARACTERIZATION OF FLOW BEHIND THE FAN OF A TURBO FAN ENGINE
10/30/1996 – 10/28/1999 FY97: $82,624 Total: $82,624
Prin. Invest.: D SREE
Tech. Officer: LERC/G G PODBOY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 2037 TUSKEGEE UNIVERSITY **1069**
SPUTTERING EROSION IN THE ION THRUSTER
04/22/1997 – 11/30/1997 FY97: $29,984 Total: $29,984
Prin. Invest.: P K RAY
Tech. Officer: LERC/M MANTENEIKS
CASE Category: 13 – PHYSICS

NAG 4 133 TUSKEGEE UNIVERSITY **1070**
TEAM TRAINING AND RETENTION OF SKILLS ACQUIRED IN ABOVE REAL TIME TRAINING ON A FLIGHT SIMULATOR
06/25/1997 – 06/25/1998 FY97: $37,246 Total: $37,246
Prin. Invest.: S F ALI
Tech. Officer: DFRC/K NORLIN
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 8 296 TUSKEGEE UNIVERSITY **1071**
MAIN ENGINE STUDY
05/20/1993 – 03/31/1997 FY97: $0 Total: $245,381
Prin. Invest.: E A IBRAHIM
Tech. Officer: MSFC/A BEAM
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 8 1126 TUSKEGEE UNIVERSITY **1072**
RIB COMPACTION OF COMPOSITE ISOGRID STRUCTURE
04/27/1995 – 04/26/1996 FY97: $0 Total: $49,861
Prin. Invest.: D MAHDUZ, D VALIDYA
Tech. Officer: MSFC/B MCMAHON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 8 1141 TUSKEGEE UNIVERSITY **1073**
DEVELOPMENT OF COMPUTER MODEL OF THE TVC ELECTRO– MECHANICAL ACTUATOR SYSTEM
05/01/1995 – 08/11/1998 FY97: $98,957 Total: $188,906
Prin. Invest.: C V DORESWAMY
Tech. Officer: MSFC/D PEARSON
CASE Category: 22 – COMPUTER SCIENCE

NAG 8 1171 TUSKEGEE UNIVERSITY **1074**
MANUFACTURING & FINITE ELEMENT MODELING OF COMPOSITE ISOGRID STRUCTURES
09/20/1996 – 09/19/1997 FY97: $0 Total: $50,000
Prin. Invest.: H MAHFUZ
Tech. Officer: MSFC/W MCHAHON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 8 1246 TUSKEGEE UNIVERSITY **1075**
R/S ATOMIZATION IN IMPINGING–JET INJECTORS OF LIQUID–PROPELLANT ROCKET ENGINES
10/31/1996 – 10/31/1999 FY97: $80,220 Total: $80,220
Prin. Invest.: D A IBRAHIM
Tech. Officer: MSFC/K GROSS
CASE Category: 46 – MECHANICAL ENGR

NAG 9 870 TUSKEGEE UNIVERSITY **1076**
SUMMER STUDENT RESEARCH PROGRAM
05/07/1996 – 04/30/1997 FY97: $0 Total: $50,000
Prin. Invest.: P A LORETAN
Tech. Officer: JSC/J DATKINSON
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 2940 TUSKEGEE UNIVERSITY **1077**
CENTER FOR FOOD PRODUCTION, PROCESSING AND WASTE M ANAGEMENT
03/12/1992 – 12/31/1996 FY97: $0 Total: $4,941,232
Prin. Invest.: W A HILL
Tech. Officer: HQ/S E MASSENBERG, HQ/S HARTMAN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG10 125 TUSKEGEE UNIVERSITY **1078**
RESEARCH AND DEVELOPMENT OF MATERIALS PROTECTIVE CLOTHING
07/12/1993 – 09/01/1998 FY97: $0 Total: $199,999
Prin. Invest.: N VAHDAT
Tech. Officer: KSC/K THOMPSON
CASE Category: 12 – CHEMISTRY

NAG10 166 TUSKEGEE UNIVERSITY **1079**
DEVEL OF SMALL PORTABLE MASS SPECTROMETER
06/14/1995 – 09/30/1998 FY97: $0 Total: $283,566
Prin. Invest.: N VAHDAT
Tech. Officer: KSC/J D COLLINS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG10 167 TUSKEGEE UNIVERSITY **1080**
RESEARCH & DEVELOPMENT OF MATERIALS & COMPONENTS FOR PROTECTIVE CLOTHING
06/19/1995 – 07/20/1998 FY97: $0 Total: $109,491
Prin. Invest.: N VAHDAT
Tech. Officer: KSC/P FAUGHNAN
CASE Category: 43 – CHEMICAL ENGR

NAG10 168 TUSKEGEE UNIVERSITY **1081**
FRACTURE MORPHOLOGY OF SELECTIVE POLYMER SYSTEMS UNDER MONOTONIC & FATIGUE LOADING
06/05/1995 – 06/07/1998 FY97: $96,164 Total: $285,284
Prin. Invest.: H A AGLAN
Tech. Officer: KSC/P FAUGHNAN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG10 176 TUSKEGEE UNIVERSITY **1082**
BIOTRANSFORMATION MODEL MIXTURE HYDROGENE FUELS
07/19/1995 – 07/31/1998 FY97: $103,647 Total: $220,570
Prin. Invest.: K HAILE
Tech. Officer: KSC/B DELIWALA
CASE Category: 12 – CHEMISTRY

NAG10 209 TUSKEGEE UNIVERSITY **1083**
SWEETPOTATO STEM CUTTING DATABASE IN PREPARATION FOR FLIGHT
09/01/1997 – 08/31/1998 FY97: $157,346 Total: $157,346
Prin. Invest.: D MARTLEY
Tech. Officer: KSC/R WHEELER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG13 33 TUSKEGEE UNIVERSITY **1084**
A STUDY OF THE FLUID MECHANICS OF REACING FLOWS IN SELECTED AEROSPACE PROPULSION DEVICES
02/28/1995 – 02/27/1998 FY97: $61,902 Total: $177,328
Prin. Invest.: E SHEPPARD
Tech. Officer: SSC/G PITALO
CASE Category: 41 – AERONAUTICAL ENGNR

NAG13 50 TUSKEGEE UNIVERSITY **1085**
NASA UNIVERSITY PARTNERSHIP AWARD WITH MINORITY INSTITUTIONS PROGRAM
06/19/1997 – 06/18/1998 FY97: $191,120 Total: $191,120
Prin. Invest.: E SHEPPARD
Tech. Officer: SSC/B ST. CYR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 9 51 TUSKEGEE UNIVERSITY **1086**
CENTER FOR FOOD & ENVIRON SYS ...(CFESH)
07/31/1997 – 12/31/1997 FY97: $1,000,000 Total: $1,000,000
Prin. Invest.: W A HILL
Tech. Officer: JSC/D BARTA
CASE Category: 62 – PSYCHOLOGY SOCIAL ASPECTS

NGT 90281 TUSKEGEE UNIVERSITY **1087**
UNDERGRAUATE STUDENT RESEARCH PROGRAM
02/15/1995 – 08/15/1996 FY97: $0 Total: $24,000
Prin. Invest.: E SHEPPARD
Tech. Officer: HQ/D K RUSSELL
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 90033 TUSKEGEE UNIVERSITY **1088**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
02/20/1997 – 08/14/1997 FY97: $12,000 Total: $12,000
Prin. Invest.: E J SHEPPARD
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 49 – ENGINEERING, OTHER

NGT 9 18 TUSKEGEE UNIVERSITY **1089**
TRAINING GRANT
07/18/1997 – 05/30/1998 FY97: $25,000 Total: $25,000
Prin. Invest.: P A LORETAN
Tech. Officer: JSC/J ATKINSON
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 4550 UNIVERSITY OF ALABAMA – BIRMINGHAM **1090**
A LASER RAMAN SPECTROMETER SYSTEM SUITABLE FOR INC SPACECRAFT
05/08/1997 – 04/30/1998 FY97: $103,411 Total: $103,411
Prin. Invest.: D J WDOWIAK
Tech. Officer: GSFC/B CAMPBELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 4584 UNIVERSITY OF ALABAMA – BIRMINGHAM **1091**
MOSSBAUER SPECTROSCOPY AS A TOOL FOR MARTIAN EXOPA PROSPECTING
05/20/1997 – 10/31/1997 FY97: $40,000 Total: $40,000
Prin. Invest.: D J WDOWIAK
Tech. Officer: GSFC/M MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 4853 UNIVERSITY OF ALABAMA – BIRMINGHAM **1092**
FORMATION OF THE HYDROCARBONS OF CARBONACEOUS CHON
07/23/1997 – 09/30/1997 FY97: $38,612 Total: $38,612
Prin. Invest.: D WDOWIAK
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 6287 UNIVERSITY OF ALABAMA – BIRMINGHAM **1093**
MICROBIAL MONITORING BASED ON QUANTITATIVE PCR
08/29/1997 – 06/30/1998 FY97: $189,744 Total: $189,744
Prin. Invest.: D CASSELL
Tech. Officer: GSFC/G FOGLEMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 8 1146 UNIVERSITY OF ALABAMA – BIRMINGHAM **1094**
RESEARCH ON DEVELOPMENT OF ROBOTIC TECHNIQUES
09/13/1995 – 09/12/1998 FY97: $231,810 Total: $514,085
Prin. Invest.: L J DELUCAS
Tech. Officer: GSFC/J ROGERS
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 8 1162 UNIVERSITY OF ALABAMA – BIRMINGHAM **1095**
INVESTIGATION OF MACROMOLECULAR TRANSPORT
09/01/1995 – 08/31/1998 FY97: $108,199 Total: $291,424
Prin. Invest.: L J DELVCAS
Tech. Officer: MSFC/T Y MILLER, MSFC/D C CARTER
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1193 UNIVERSITY OF ALABAMA – BIRMINGHAM **1096**
"ROBOTIC ACQUISITION & CRYOGENIC PRESERVATION OF CRYSTALS"
09/01/1995 – 09/19/1997 FY97: $85,323 Total: $278,199
Prin. Invest.: C D SMITH
Tech. Officer: MSFC/J X HO, MSFC/D C CARTER
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1228 UNIVERSITY OF ALABAMA – BIRMINGHAM **1097**
THE EFFECT OF CONVECTION ON MORPHOLOGICAL STABILI- TY
05/01/1996 – 04/29/1998 FY97: $50,000 Total: $150,000
Prin. Invest.: J B ANDREWS
Tech. Officer: MSFC/C R TALLEY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 813 UNIVERSITY OF ALABAMA – BIRMINGHAM **1098**
MICRO MOLCULAR CRYSTALLAGRAPHY IN SPACE
09/15/1985 – 07/01/1998 FY97: –$196,152 Total: $25,815,856
Prin. Invest.: C E BUGG, K M PRUITT
Tech. Officer: HQ/A VILLAMIL, HQ/A VILLAMIL
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 4079 UNIVERSITY OF ALABAMA – BIRMINGHAM **1099**
THE IR EMITTING AROMATIC COMPONENT OF THE INTERSTE LLAR & CIR-CUMSTELLAR MEDIUMS
07/13/1994 – 06/30/1997 FY97: $0 Total: $106,027
Prin. Invest.: T J WDOWIAK
Tech. Officer: HQ/M MEYER
CASE Category: 13 – PHYSICS

NAGW 4158 UNIVERSITY OF ALABAMA – BIRMINGHAM **1100**
FORMATION OF THE HYDROCARBONS OF CARBONACEOUS CHONDRITES
09/26/1994 – 06/30/1997 FY97: $0 Total: $54,928
Prin. Invest.: T J WDOWIAK
Tech. Officer: HQ/P ROGERS
CASE Category: 12 – CHEMISTRY

NAGW 4854 UNIVERSITY OF ALABAMA – BIRMINGHAM **1101**
MOSSBAUER SPECTOSCOPY AS A TOOL FOR MARTIAN EXOPAL EONTO-LOGICAL PROSPECTING;U OF ALABAMA–BIRMINGHAM
11/02/1995 – 06/30/1997 FY97: $0 Total: $40,000
Prin. Invest.: T WDOWIAK
Tech. Officer: HQ/M MEYER
CASE Category: 12 – CHEMISTRY

NAGW 5081 UNIVERSITY OF ALABAMA – BIRMINGHAM **1102**
MICROBIAL MONITORING BASED ON QUANTITATIVE PCR
07/16/1996 – 06/30/1997 FY97: $0 Total: $220,152
Prin. Invest.: G CASSELL
Tech. Officer: HQ/V THORNE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5095 UNIVERSITY OF ALABAMA – BIRMINGHAM **1103**
A LASAR RAMAN SPECTROMETER SYSTEM
06/13/1996 – 06/30/1997 FY97: $0 Total: $115,299
Prin. Invest.: T J WDOWIAK
Tech. Officer: HQ/T KOSTIUK, HQ/H C BRINTON
CASE Category: 11 – ASTRONOMY

NAS 8 36611 UNIVERSITY OF ALABAMA – BIRMINGHAM **1104**
RESEARCH STUDY ENTITLED "PROTIEN CRYSTAL GROWTH IN A MICROGRAVITY ENVIRONMENT"
07/25/1985 – 01/30/1996 FY97: $0 Total: $8,405,934
Prin. Invest.: L DELUCAS, L J DELUCAS, J K BAIRD
Tech. Officer: MSFC/R C DARTY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAS 8 39717 UNIVERSITY OF ALABAMA – BIRMINGHAM **1105**
RESEARCH STUDY
01/29/1993 – 01/28/1998 FY97: $390,545 Total: $1,105,353
Prin. Invest.: J B ANDREWS
Tech. Officer: MSFC/T DELOACH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAS 8 40189 UNIVERSITY OF ALABAMA – BIRMINGHAM **1106**
PROTEIN CRYSTAL GROWTH IN MICROGRAVITY
04/01/1994 – 09/30/2001 FY97: $2,760,425 Total: $8,477,977
Prin. Invest.: L J DELUCAS
Tech. Officer: MSFC/D K COLLINS
CASE Category: 59 – LIFE SCIENCE, OTHER

NAS 8 40429 UNIVERSITY OF ALABAMA – BIRMINGHAM **1107**
CRYSTAL RESEARCH
12/02/1994 – 12/01/1995 FY97: $0 Total: $112,000
Prin. Invest.: R N ANDREWS
Tech. Officer: MSFC/F R SZOFRAN, MSFC/D C GILLIES
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAS 8 97094 UNIVERSITY OF ALABAMA – BIRMINGHAM **1108**
RESEARCH AND TECHNOLOGY DEVELOPMENT PROGRAM
12/11/1996 – 12/12/1997 FY97: $0 Total: $0
Prin. Invest.: R N SCRIPA
Tech. Officer: MSFC/R R HOLMES
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 8 126 UNIVERSITY OF ALABAMA – BIRMINGHAM **1109**
FOR RES:"CONTINUATION OF SUPPORT FOR COMMERCIAL SPACE CTR, CTR FOR MACROMOLECULAR CRYSTALLOGRAPHY"
01/27/1997 – 11/30/1997 FY97: $6,101,754 Total: $6,101,754
Prin. Invest.: L DELUCUS
Tech. Officer: MSFC/M NALL
CASE Category: 59 – LIFE SCIENCE, OTHER

NGT 50879 UNIVERSITY OF ALABAMA – BIRMINGHAM **1110**
GSRP
09/23/1992 – 06/30/1997 FY97: $0 Total: $77,000
Prin. Invest.: D G AGRESTI
Tech. Officer: MSFC/F SIX
CASE Category: 13 – PHYSICS

NGT 50880 UNIVERSITY OF ALABAMA – BIRMINGHAM **1111**
UNIV ALABAMA/GRADUTE STUDENT RESEARHCERS PROGRAM
05/29/1992 – 06/30/1997 FY97: $0 Total: $88,000
Prin. Invest.: D L SHEALY
Tech. Officer: MSFC/F SIX
CASE Category: 13 – PHYSICS

NGT 51080 UNIVERSITY OF ALABAMA – BIRMINGHAM **1112**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/02/1993 – 06/30/1996 FY97: $0 Total: $44,000
Prin. Invest.: R ANDREWS
Tech. Officer: HQ/D A HOLLAND
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 70397 UNIVERSITY OF ALABAMA – BIRMINGHAM **1113**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
09/29/1994 – 06/30/1998 FY97: $0 Total: $66,000
Prin. Invest.: W JONES
Tech. Officer: HQ/D K RUSSELL
CASE Category: 22 – COMPUTER SCIENCE

NGT 8 52845 UNIVERSITY OF ALABAMA – BIRMINGHAM **1114**
GRADUATE STUDENT RESEARCH PROGRAM FELLOWSHIP
09/12/1997 – 09/11/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: C M LAWSON
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 13 – PHYSICS

NAG 1 1534 UNIVERSITY OF ALABAMA – HUNTSVILLE **1115**
A DETERMINATION OF OPTIMAL CONDITIONS FOR MELT STABILIZATION IN A MAGNETIC FIELD
07/20/1993 – 02/28/1997 FY97: –$6,444 Total: $75,003
Prin. Invest.: A NADARAJAH
Tech. Officer: LARC/A L FRIPP
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 1 1842 UNIVERSITY OF ALABAMA – HUNTSVILLE **1116**
REDUCING THE STATION–TO–STATION VARIABILITY OF UMKEHR OZONE TRENDS USING SAGE MEASUREMENTS
06/20/1996 – 06/30/1998 FY97: $80,000 Total: $120,000
Prin. Invest.: M J NEWCHURCH
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1898 UNIVERSITY OF ALABAMA – HUNTSVILLE **1117**
EVALUATING THE INFORMATION CONTENT OF NEWLY RETRIEVED SAGE II NO2 MEASUREMENTS IN THE LOWER
02/05/1997 – 02/04/1998 FY97: $73,511 Total: $73,511
Prin. Invest.: M J NEWCHURCH
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1955 UNIVERSITY OF ALABAMA – HUNTSVILLE **1118**
CLOUDS AND THE EARTH'S RADIANT ENERGY SYSTEM SCIENTIFIC INVESTIGATION
08/25/1997 – 02/28/1998 FY97: $105,000 Total: $105,000
Prin. Invest.: R WELCH
Tech. Officer: LARC/B A WIELICKI
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 985 UNIVERSITY OF ALABAMA – HUNTSVILLE **1119**
MECHANISMS OF GRAVITY SENSING AND RESPONSE IN HEMA TOPOIETIC CELLS
06/21/1995 – 12/31/1998 FY97: $0 Total: $270,883
Prin. Invest.: M L LEWIS
Tech. Officer: ARC/C M WINGET, ARC/C G JAHNS
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAG 3 1740 UNIVERSITY OF ALABAMA – HUNTSVILLE **1120**
ANALYSIS OF RESIDUAL ACCELERATION EFFECTS ON TRANS PORT AND SEGREGATION DURING DIRECTIONA SOLIDIFICA
05/01/1995 – 10/31/1997 FY97: $0 Total: $124,997
Prin. Invest.: J D ALEXANDER
Tech. Officer: LERC/J C DUH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1864 UNIVERSITY OF ALABAMA – HUNTSVILLE **1121**
STABILITY LIMITS AND DYNAMICS OF NONAXISYMMETRIC L IQUID BRIDGES
05/07/1996 – 05/06/2000 FY97: $80,000 Total: $199,999
Prin. Invest.: J D ALEXANDER
Tech. Officer: LERC/J C DUH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 2373 UNIVERSITY OF ALABAMA – HUNTSVILLE **1122**
A SEARCH FOR PRE– AND POST–BURST EMISSION FROM GAM MA–RAY BURST SOURCES
09/23/1993 – 09/30/1996 FY97: $0 Total: $84,999
Prin. Invest.: A G EMSLIE
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2735 UNIVERSITY OF ALABAMA – HUNTSVILLE **1123**
X–RAY BURST SPECTROSCOPY WITH ASCA
09/21/1994 – 03/31/1997 FY97: $0 Total: $15,000
Prin. Invest.: J VAN PARADIJS
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2755 UNIVERSITY OF ALABAMA – HUNTSVILLE **1124**
PULSE TIMING OF VELA X–1 AND CEN X–3; SEARCH FOR SOFT GAMMA–RAY EVENTS, ECT...
10/18/1994 – 05/31/1997 FY97: $28,500 Total: $189,994
Prin. Invest.: J V PARADIJS
Tech. Officer: GSFC/J NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3003 UNIVERSITY OF ALABAMA – HUNTSVILLE **1125**
SYSTEMATIC STUDY OF BLACK–HOLE CANDIDATES WITH GINGA DATA
07/14/1995 – 07/31/1997 FY97: $0 Total: $62,000
Prin. Invest.: J VAN PARADIKIS
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3027 UNIVERSITY OF ALABAMA – HUNTSVILLE **1126**
ON THE ORIGIN AND EVOLUTION ON STELLAR CHROMO– SPHERES, CORONAE AND WINDS
10/02/1995 – 10/14/1997 FY97: $106,900 Total: $310,064
Prin. Invest.: Z E MUSIELAK
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3029 UNIVERSITY OF ALABAMA – HUNTSVILLE **1127**
ENERGETICS OF IMPULSIVE SOLAR FLARES: CORRELATING BATSE HARD X–RAY BURSTS AND THE SOLAR ATMOSPHERES
10/02/1995 – 10/14/1996 FY97: $0 Total: $32,499
Prin. Invest.: E K NEWTON
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3083 UNIVERSITY OF ALABAMA – HUNTSVILLE **1128**
BASIS: BURST ARCSECOND IMAGING SPECTROSCOPTY
10/12/1995 – 12/14/1996 FY97: $0 Total: $18,000
Prin. Invest.: J VAN PARADIJS
Tech. Officer: GSFC/N GEHRELS
CASE Category: 11 – ASTRONOMY

NAG 5 3160 UNIVERSITY OF ALABAMA – HUNTSVILLE **1129**
OBSERVATION OF A SHADOW IN THE DIFFUSE EUV BACKGROUND CAST BY AN IRAS CIRRUS CLOUD
01/24/1996 – 07/31/1997 FY97: $0 Total: $65,519
Prin. Invest.: R LIEU
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 3164 UNIVERSITY OF ALABAMA – HUNTSVILLE **1130**
THE DIFFUSE EUV AND X-RAY BACKGROUND AS A PROBE OF THE INTERSTELLAR MEDIUM
02/02/1996 – 02/14/1998 FY97: $0 Total: $78,200
Prin. Invest.: R LIEU
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3269 UNIVERSITY OF ALABAMA – HUNTSVILLE **1131**
LUMINOSITY DEPENDENCE OF THE X-RAY SPECTRA AND VAR IABILITY; A SEARCH FOR ORBITAL DOPPLER
07/02/1996 – 12/31/1997 FY97: $0 Total: $28,100
Prin. Invest.: J VAN PARADIJS
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3271 UNIVERSITY OF ALABAMA – HUNTSVILLE **1132**
STUDY OF VERY RAPID PHENOMENA IN SCO X-1
07/01/1996 – 12/31/1997 FY97: $0 Total: $5,000
Prin. Invest.: J PARADUS
Tech. Officer: GSFC/J SWANK
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 3402 UNIVERSITY OF ALABAMA – HUNTSVILLE **1133**
VOYAGER LYMAN-ALPHA AND CONTINUUM OBSERVATIONS OF
10/15/1996 – 10/14/1997 FY97: $3,700 Total: $3,700
Prin. Invest.: W C KEEL
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3551 UNIVERSITY OF ALABAMA – HUNTSVILLE **1134**
THE ROLE OF TURBULENCE IN HELIOSPHERIC PLASMAS
12/09/1996 – 11/30/1997 FY97: $37,000 Total: $37,000
Prin. Invest.: J A MILLER
Tech. Officer: GSFC/M L GOLDETEIN
CASE Category: 13 – PHYSICS

NAG 5 3554 UNIVERSITY OF ALABAMA – HUNTSVILLE **1135**
THE BEHAVIOR AND PROPERTIES OF HTE HARD X-RAY COMP ONENT IN THE QS TEL
12/14/1996 – 12/14/1997 FY97: $13,000 Total: $13,000
Prin. Invest.: R LIEU
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3672 UNIVERSITY OF ALABAMA – HUNTSVILLE **1136**
A STUDY OF PULSE SHAPE EVOLUTION AND X-RAY REPROCE
01/02/1997 – 12/31/1997 FY97: $9,500 Total: $9,500
Prin. Invest.: J V PARADIJS
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3674 UNIVERSITY OF ALABAMA – HUNTSVILLE **1137**
STUDY OF THE TEMPORAL AND SPECTRAL VARIABILITY OF WITH BATSE
01/02/1997 – 01/14/1998 FY97: $70,500 Total: $70,500
Prin. Invest.: J V PARADIJS
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3675 UNIVERSITY OF ALABAMA – HUNTSVILLE **1138**
A STUDY OF TERRESTRIAL GAMMA-RAY FLASHES OBSERVED
01/02/1997 – 01/14/1998 FY97: $10,001 Total: $10,001
Prin. Invest.: R MALLOZZI
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3705 UNIVERSITY OF ALABAMA – HUNTSVILLE **1139**
EUV EMISSION FROM CLUSTERS OF GALAXIES AN EUVE STUDY OF THE ACCRETION MODE CHANGES IN THE
02/11/1997 – 02/14/1998 FY97: $23,423 Total: $23,423
Prin. Invest.: R LIEU
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 3805 UNIVERSITY OF ALABAMA – HUNTSVILLE **1140**
LONG TERM MONITORING OF THE X-RAY PULSAR 4U1538-52 LONG TERM MONITORING AND THESPECTRUM OF AQUILA X
12/12/1996 – 12/14/1997 FY97: $36,000 Total: $36,000
Prin. Invest.: W PACIEBAB
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3828 UNIVERSITY OF ALABAMA – HUNTSVILLE **1141**
STUDY OF GRB DETECTED BY BATSE/COMPTON AND PGS/MAR
02/11/1997 – 02/14/1998 FY97: $10,000 Total: $10,000
Prin. Invest.: R PREECE
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3905 UNIVERSITY OF ALABAMA – HUNTSVILLE **1142**
ORBITING ARRAY OF WIDE-ANGLE LIGHT COLLECTORS (OWL ORBITING EYES TO STUDY AIR SHOWERS INITIATED BY 1
02/26/1997 – 02/28/1998 FY97: $60,000 Total: $60,000
Prin. Invest.: Y TAKAHASHI
Tech. Officer: GSFC/J F ORMES
CASE Category: 11 – ASTRONOMY

NAG 5 4003 UNIVERSITY OF ALABAMA – HUNTSVILLE **1143**
AUTOMATED IDENTIFICATION OF MORPHOLOGICAL SIGNATUR IMAGES
03/06/1997 – 02/28/1998 FY97: $105,000 Total: $105,000
Prin. Invest.: D G RICHARDS
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 4027 UNIVERSITY OF ALABAMA – HUNTSVILLE **1144**
DIAGNOSTICS OF MASS MOTIONS IN SOLAR FLARES
03/26/1997 – 03/31/1998 FY97: $102,000 Total: $102,000
Prin. Invest.: D EMSLIE
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NAG 5 4111 UNIVERSITY OF ALABAMA – HUNTSVILLE **1145**
FAST SPECTROSCOPY OF Z SOURCES; OBSERVATIONS OF TH BURST
04/28/1997 – 04/14/1998 FY97: $26,000 Total: $26,000
Prin. Invest.: J VAN PARADIJS
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4230 UNIVERSITY OF ALABAMA – HUNTSVILLE **1146**
THEORETICAL AND EXPERIMENTAL STUDIES OF THE ISOTOP SOLAR GRAINS FROM PRIMITIVE METEORITES
03/24/1997 – 04/30/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: D J WASSERBURG
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4268 UNIVERSITY OF ALABAMA – HUNTSVILLE **1147**
THERMAL STRUCTURE AND COMPOSITION OF THE INNER MAG
03/25/1997 – 05/14/1998 FY97: $60,759 Total: $60,759
Prin. Invest.: D H COMFORT
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 4419 UNIVERSITY OF ALABAMA – HUNTSVILLE **1148**
TOO OBSERVATIONS OF CYG X–1 DURING PERIODS OF INTE FLICKERING
05/01/1997 – 04/30/1998 FY97: $10,000 Total: $10,000
Prin. Invest.: J VAN PARADIJS
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4482 UNIVERSITY OF ALABAMA – HUNTSVILLE **1149**
LUMINOSITY DEPENDENCE OF THE X–RAY SPECTRA AND VAR ATOLL SOURCES
05/15/1997 – 05/14/1998 FY97: $16,000 Total: $16,000
Prin. Invest.: J VANPARADIJS
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4604 UNIVERSITY OF ALABAMA – HUNTSVILLE **1150**
THREE–DIMENSIONAL NUMERICAL SIMULATION OF NONLINEA IN THE AURORAL IONOSPHERE
05/13/1997 – 06/30/1998 FY97: $76,957 Total: $76,957
Prin. Invest.: D SINGH
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 4608 UNIVERSITY OF ALABAMA – HUNTSVILLE **1151**
ION ACCELERATION AND ABUNDANCE ENHANCEMENTS IN IMP
05/20/1997 – 03/31/1998 FY97: $35,000 Total: $35,000
Prin. Invest.: P A MILLER
Tech. Officer: GSFC/M A FORMAN
CASE Category: 11 – ASTRONOMY

NAG 5 4762 UNIVERSITY OF ALABAMA – HUNTSVILLE **1152**
DETERMINING GRAVITY WAVE ENERGETICS FROM COINCIDEN GROUND–BASED OBSERVATIONS OFNIGHTGLOW EMMISSIONS
06/05/1997 – 05/31/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: D P HICKEY
Tech. Officer: GSFC/M M MELLOT
CASE Category: 13 – PHYSICS

NAG 5 4788 UNIVERSITY OF ALABAMA – HUNTSVILLE **1153**
TESTING AND EVALUATION OF THE EOSDIS CORE SYSTEM:
07/03/1997 – 06/30/1998 FY97: $88,000 Total: $88,000
Prin. Invest.: R WELCH
Tech. Officer: GSFC/H RAMPRIYAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4878 UNIVERSITY OF ALABAMA – HUNTSVILLE **1154**
TOO OBSERVATIONS OF SOFT GAMMA REPEATERS
07/03/1997 – 06/30/1998 FY97: $8,000 Total: $8,000
Prin. Invest.: J VANPARADIJS
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4893 UNIVERSITY OF ALABAMA – HUNTSVILLE **1155**
COUPLING OF MICRO–AND MESO–SCALE PROCESSES DURING IC REFILLING
06/20/1997 – 06/30/1998 FY97: $35,000 Total: $35,000
Prin. Invest.: D SINGH, NONE
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 4913 UNIVERSITY OF ALABAMA – HUNTSVILLE **1156**
PHENOMENA – ORIENTED DATA MINING
07/02/1997 – 03/31/1998 FY97: $369,994 Total: $369,994
Prin. Invest.: S GRAVES
Tech. Officer: GSFC/R KREIDER
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 4951 UNIVERSITY OF ALABAMA – HUNTSVILLE **1157**
ELECTRON ACCELERATION IN IMPULSIVE SOLAR FLARES
06/23/1997 – 04/30/1998 FY97: $87,000 Total: $87,000
Prin. Invest.: P A MILLER
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NAG 5 5112 UNIVERSITY OF ALABAMA – HUNTSVILLE **1158**
DEVELOPMENT OF SIFTER WITH SIMULTANEOUS TRACKING AND CALORIMETRY
02/12/1997 – 09/30/1997 FY97: $72,000 Total: $72,000
Prin. Invest.: G N PENDLETON
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 6021 UNIVERSITY OF ALABAMA – HUNTSVILLE **1159**
ACCRETING BLACK HOLES – AN ALL OUT EFFORT
08/19/1997 – 08/14/1998 FY97: $85,000 Total: $85,000
Prin. Invest.: J VAN PARADIJS
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 6123 UNIVERSITY OF ALABAMA – HUNTSVILLE **1160**
ENERGY BALANCE IN SOLAR STRUCTURES
08/11/1997 – 07/31/1998 FY97: $76,575 Total: $76,575
Prin. Invest.: D EMSLIE
Tech. Officer: GSFC/W WAGNER
CASE Category: 13 – PHYSICS

NAG 8 178 UNIVERSITY OF ALABAMA – HUNTSVILLE **1161**
PHASE III EVALUATION OF EXPLORATOIN WORKSHOP CONCEPTS THE VON BRAUN FORUMS
01/23/1991 – 02/28/1996 FY97: -$1,965 Total: $151,923
Prin. Invest.: A H YELLE
Tech. Officer: MSFC/C R CHAPPELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 984 UNIVERSITY OF ALABAMA – HUNTSVILLE **1162**
CRYSTAL RESEARCH
12/06/1993 – 08/30/1997 FY97: -$20,699 Total: $208,766
Prin. Invest.: A NADARAJAH
Tech. Officer: MSFC/M L PUSEY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 987 UNIVERSITY OF ALABAMA – HUNTSVILLE **1163**
EXPLORATIONS IN SUPERCOMPUTING
11/02/1993 – 10/01/1995 FY97: -$87 Total: $562,457
Prin. Invest.: C DAVIS
Tech. Officer: MSFC/W ANDERSON
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 8 1028 UNIVERSITY OF ALABAMA – HUNTSVILLE **1164**
TECHNOLOGY REINVESTMENT PROGRAM
03/16/1994 – 03/17/1998 FY97: $0 Total: $298,448
Prin. Invest.: J O DIMMOCK
Tech. Officer: MSFC/J CARLISLE
CASE Category: 49 – ENGINEERING, OTHER

NAG 8 1029 UNIVERSITY OF ALABAMA – HUNTSVILLE **1165**
TECHNOLOGY REINVESTMENT PROGRAM
03/16/1994 – 09/18/1997 FY97: $0 Total: $380,184
Prin. Invest.: B J SCHROER
Tech. Officer: MSFC/J CARLISLE
CASE Category: 49 – ENGINEERING, OTHER

NAG 8 1071 UNIVERSITY OF ALABAMA – HUNTSVILLE **1166**
SURFACE CHARACTERIZATION AND CONTAMINATION ANALY- SIS
04/01/1994 – 02/28/1998 FY97: $50,000 Total: $225,127
Prin. Invest.: G L WORKMAN, B J SCHROER
Tech. Officer: MSFC/B H NERREN, MSFC/D BURNS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 8 1084 UNIVERSITY OF ALABAMA – HUNTSVILLE **1167**
ON WAVE PROCESSES IN THE SOLAR ATMOSPHERE
08/22/1994 – 08/22/1998 FY97: $20,000 Total: $80,704
Prin. Invest.: Z E MUSIELAK
Tech. Officer: MSFC/E J REICHMANN, MSFC/J M DAVIS
CASE Category: 11 – ASTRONOMY

NAG 8 1097 UNIVERSITY OF ALABAMA – HUNTSVILLE **1168**
ANALYTICAL EVALUATION OF FILM COOLED ABLATIVE ROCKET NOZZELS
11/16/1994 – 01/15/1996 FY97: -$65 Total: $29,459
Prin. Invest.: LANDRUM
Tech. Officer: MSFC/R H COUNTS, MSFC/W T PETERS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 8 1122 UNIVERSITY OF ALABAMA – HUNTSVILLE **1169**
EDUCATION GRANT 1995 SUMMER TEACHER ENRICHMENT PROGRAM
04/03/1995 – 07/02/1997 FY97: $0 Total: $187,000
Prin. Invest.: G R KARR
Tech. Officer: MSFC/J S EHMEN, MSFC/T R GUTHRIE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 1161 UNIVERSITY OF ALABAMA – HUNTSVILLE **1170**
NUCLEATION & CONVECTION EFFECTS IN PROTEIN CRYSTAL GROWTH
07/25/1995 – 07/24/1998 FY97: $242,394 Total: $485,411
Prin. Invest.: F E ROSENBERGER
Tech. Officer: MSFC/T Y MILLER, MSFC/D C CARTER
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1168 UNIVERSITY OF ALABAMA – HUNTSVILLE **1171**
NUCLEATION & CONVECTION EFFECTS IN PROTEIN CRYSTAL GROWTH
01/08/1996 – 01/31/1997 FY97: $0 Total: $196,557
Prin. Invest.: F E ROSENBERGER
Tech. Officer: MSFC/T Y MILLER, MSFC/D C CARTER
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1216 UNIVERSITY OF ALABAMA – HUNTSVILLE **1172**
HYBRID ROCKET POWERED UPPER STAGE TECHNOLOGY GROUND DEMONSTRATOR PROJECT
11/30/1995 – 11/30/1998 FY97: $19,495 Total: $60,055
Prin. Invest.: R A FREDERICK, D A EVANS
Tech. Officer: MSFC/T KUBLIN
CASE Category: 46 – MECHANICAL ENGR

NAG 8 1217 UNIVERSITY OF ALABAMA – HUNTSVILLE **1173**
HIGH SPEED HIGH PRECISION DRIV MECHANISM
12/01/1995 – 11/30/1997 FY97: $29,550 Total: $84,550
Prin. Invest.: N LI
Tech. Officer: MSFC/R KOCZOR
CASE Category: 46 – MECHANICAL ENGR

NAG 8 1223 UNIVERSITY OF ALABAMA – HUNTSVILLE **1174**
PASSIVE ACCELEROMETER SYSTEM STUDY
02/06/1996 – 02/04/1997 FY97: $0 Total: $24,777
Prin. Invest.: I D ALEXANDER
Tech. Officer: MSFC/R C DARTY
CASE Category: 13 – PHYSICS

NAG 8 1229 UNIVERSITY OF ALABAMA – HUNTSVILLE **1175**
A THEORETICAL & EXPERIMENTAL INVESTIGATION OF VIBRATIONAL CONTROL OF BRIDGMAN CRYSTAL GROWTH TEC
05/31/1996 – 05/31/1998 FY97: $40,000 Total: $124,996
Prin. Invest.: D FEDOSEYER
Tech. Officer: MSFC/C R TALLEY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1307 UNIVERSITY OF ALABAMA – HUNTSVILLE **1176**
RESEARCH "SHOOTING STAR EXPERIMENTAL SOLAR THERMAL ENGINE AND CONCENTRATOR TESTING AT UAH
09/19/1996 – 09/30/1997 FY97: $116,361 Total: $190,708
Prin. Invest.: J BONEMETTI, D A GREGORY
Tech. Officer: MSFC/S PATEL, MSFC/S TUCKER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 8 1308 UNIVERSITY OF ALABAMA – HUNTSVILLE **1177**
RESEARCH "HIGH-STRENGTH MAGNET LEVITATION SYSTEM & HIGH SPEED CRYOGENIC ROTATION MECHANISMS
09/20/1996 – 03/23/1998 FY97: $0 Total: $50,000
Prin. Invest.: N LI
Tech. Officer: MSFC/J T HOWELL
CASE Category: 13 – PHYSICS

NAG 8 1342 UNIVERSITY OF ALABAMA – HUNTSVILLE **1178**
FOR RESEARCH "MIDCOURSE SPACE EXPERIMENT"
03/28/1997 – 03/30/1998 FY97: $99,000 Total: $99,000
Prin. Invest.: D B POLLOCK
Tech. Officer: MSFC/W BRANTTEY
CASE Category: 11 – ASTRONOMY

NAG 8 1354 UNIVERSITY OF ALABAMA – HUNTSVILLE **1179**
R/S PROTEIN PRECIPITANT SPECIFIC CRITERIA FOR THE IMPACT OF REDUCED GRAVITY ON CRYSTAL PEFECTION
06/04/1997 – 11/30/1997 FY97: $103,000 Total: $103,000
Prin. Invest.: F ROSENBERGER
Tech. Officer: MSFC/C R TALLEY, MSFC/J P DOWNEY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 8 1355 UNIVERSITY OF ALABAMA – HUNTSVILLE **1180**
RESEARCH "INFRARED SIGNATURES FOR MAMMALIAN CELLS IN CULTURE"
06/26/1997 – 11/30/1997 FY97: $65,996 Total: $65,996
Prin. Invest.: K CHITTUR
Tech. Officer: MSFC/C TALLEY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 1388 UNIVERSITY OF ALABAMA – HUNTSVILLE **1181**
1997 SUMMER TEACHER ENRICHMENT PROGRAM UNDER THE DIRECTION OF DR. GERALD R. KARR.
07/01/1997 – 07/01/1998 FY97: $143,690 Total: $143,690
Prin. Invest.: G KARR, L FREEMAN
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 99 – MULTI INTERDISCPL,OTHER

NAG 8 1403 UNIVERSITY OF ALABAMA – HUNTSVILLE **1182**
THEORETICAL ANALYSIS FOR CONSTRUCTION OF A NON- GRAVITY LABORATORY ON ORBIT
08/28/1997 – 02/27/1998 FY97: $10,000 Total: $10,000
Prin. Invest.: L SMALLEY
Tech. Officer: MSFC/J CAMPBELL
CASE Category: 12 – CHEMISTRY

NAGW 812 UNIVERSITY OF ALABAMA – HUNTSVILLE **1183**
MATERIAL PROCESSING
09/15/1985 – 10/31/1997 FY97: $39,454 Total: $38,495,975
Prin. Invest.: G R KARR, C A LUNDQUIST
Tech. Officer: HQ/R P WHITTEN, HQ/A VILLAMIL
CASE Category: 47 – METAL & MATERIALS ENGR

NAGW 1554 UNIVERSITY OF ALABAMA – HUNTSVILLE **1184**
TIME-DEPENDENT POLAR PLASMA OUTFLOW
12/07/1988 – 10/31/1995 FY97: –$3,000 Total: $415,548
Prin. Invest.: J L HORWITZ
Tech. Officer: HQ/M M MELLOTT, HQ/T W PERRY
CASE Category: 13 – PHYSICS

NAGW 1651 UNIVERSITY OF ALABAMA – HUNTSVILLE **1185**
DEVELOPMENT OF NEW METHODS FOR TRANSITION RADIATION
02/03/1989 – 02/28/1997 FY97: $0 Total: $428,173
Prin. Invest.: Y TAKAHASHI
Tech. Officer: HQ/M M MELLOTT, HQ/T W PERRY
CASE Category: 13 – PHYSICS

NAGW 2898 UNIVERSITY OF ALABAMA – HUNTSVILLE **1186**
FAR ULTRAVIOLET NARROWLAND AND BROADBAND FILTERS, POLARIZERS AND BEAMSPLITTERS FOR ASTROPHYSICS
02/20/1992 – 12/31/1995 FY97: –$108 Total: $239,892
Prin. Invest.: M ZUKIC
Tech. Officer: HQ/R STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 3470 UNIVERSITY OF ALABAMA – HUNTSVILLE **1187**
THE IONOSPHERE MAGNETOSPHERE TRANSITION REGION SIM ULATION AND DATA COMPARSION
04/09/1993 – 02/29/1996 FY97: $0 Total: $205,854
Prin. Invest.: G R WILSON
Tech. Officer: HQ/E C WHIPPLE, HQ/G L WITHBROE
CASE Category: 13 – PHYSICS

NAGW 3540 UNIVERSITY OF ALABAMA – HUNTSVILLE **1188**
NAGW-3540/UNIV ALABAMA/ AUTOMATED ANALYSIS OF ULTR A HIGH ENERGY COSMIC RAY EVENTS
04/21/1993 – 08/31/1997 FY97: –$4 Total: $234,895
Prin. Invest.: Y TAKAHASHI
Tech. Officer: HQ/W V JONES, HQ/G L WITHBROE
CASE Category: 13 – PHYSICS

NAGW 3617 UNIVERSITY OF ALABAMA – HUNTSVILLE **1189**
THE OBSERVED CHARACTER OF FLARE ENERGY RELEASES
05/26/1993 – 09/30/1997 FY97: $0 Total: $206,132
Prin. Invest.: A G EMSLIE
Tech. Officer: HQ/W J WAGNER, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 3674 UNIVERSITY OF ALABAMA – HUNTSVILLE **1190**
INVESTIGATE THE IMPROVEMENT OF INTERUSABILITY FOR NASA EOS DATA
07/13/1993 – 04/30/1997 FY97: $0 Total: $908,038
Prin. Invest.: M E BOTTS
Tech. Officer: HQ/M E MAIDEN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3979 UNIVERSITY OF ALABAMA – HUNTSVILLE **1191**
WAVE DRIVEN EXOTHERMIC HEATING IN THE MESOPAUSE RE GION
05/13/1994 – 10/31/1997 FY97: $0 Total: $230,578
Prin. Invest.: M P HICKEY
Tech. Officer: HQ/M M MELLOTT, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4086 UNIVERSITY OF ALABAMA – HUNTSVILLE **1192**
1994 HUNTSVILLE WORKSHOP: COUPLING OF MICRO-AND MESOSCALE PROCESSES IN SPACE PLASMA TRANSPORT
07/22/1994 – 05/31/1996 FY97: –$1,248 Total: $3,752
Prin. Invest.: N SINGH*Prin. Invest.:* NONE
Tech. Officer: HQ/E C WHIPPLE, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4259 UNIVERSITY OF ALABAMA – HUNTSVILLE **1193**
PHENOMENA ORIENTED DATA MINING
01/31/1995 – 09/30/1997 FY97: $0 Total: $863,415
Prin. Invest.: S GRAVES
Tech. Officer: HQ/R S MCGINNIS
CASE Category: 22 – COMPUTER SCIENCE

NAGW 4378 UNIVERSITY OF ALABAMA – HUNTSVILLE **1194**
ION ACCELERATION AND ABUNDANCE ENHANCEMENTS IN IMP ULSIVE SOLAR FLARES
03/31/1995 – 03/31/1998 FY97: $0 Total: $77,753
Prin. Invest.: J A MILLER
Tech. Officer: HQ/W V JONES, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4470 UNIVERSITY OF ALABAMA – HUNTSVILLE **1195**
3–DIMENSIONAL NUMERICAL SIMULATION OF NONLINEAR LO WER HYBRID WAVE PROPAGATION
05/15/1995 – 06/30/1997 FY97: $0 Total: $146,577
Prin. Invest.: N SINGH
Tech. Officer: HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4500 UNIVERSITY OF ALABAMA – HUNTSVILLE **1196**
KINETIC SPACE WEATHER
05/13/1995 – 02/28/1996 FY97: –$1 Total: $37,999
Prin. Invest.: J L HORWITZ
Tech. Officer: HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4665 UNIVERSITY OF ALABAMA – HUNTSVILLE **1197**
COMPREHENSIVE ANLAYSES OF DATA COLLECTED FROM TEREK
09/13/1995 – 11/30/1996 FY97: $0 Total: $75,609
Prin. Invest.: S T WU
Tech. Officer: HQ/W J WAGNER, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4749 UNIVERSITY OF ALABAMA – HUNTSVILLE **1198**
OPTIMIZING THE MERGING STRATEGY FOR MSU GLOBAL GRI DDED TEMPERATURES
09/12/1995 – 06/30/1998 FY97: $0 Total: $113,036
Prin. Invest.: J R CHRISTY
Tech. Officer: HQ/M E MAIDEN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 5082 UNIVERSITY OF ALABAMA – HUNTSVILLE **1199**
ELECTRON ACCELERATION
06/04/1996 – 09/30/1997 FY97: $0 Total: $74,000
Prin. Invest.: J A MILLER
Tech. Officer: HQ/W J WAGNER, HQ/G L WITHBROE
CASE Category: 13 – PHYSICS

NAS 5 31718 UNIVERSITY OF ALABAMA – HUNTSVILLE **1200**
EOS ASTER/HIRIS INVESTIGATION
01/09/1992 – 12/14/2001 FY97: $82,518 Total: $1,131,518
Prin. Invest.: R WELCH
Tech. Officer: GSFC/T BRAKE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 8 37107 UNIVERSITY OF ALABAMA – HUNTSVILLE **1201**
STUDY ENTITLED "RESEARCH ON ORBITAL PLASMA–ELECTRODYNAMICS."
03/17/1987 – 03/31/1998 FY97: $337,769 Total: $1,474,541
Prin. Invest.: S T WU, N T SINGH, N SINGH
Tech. Officer: MSFC/G W JOHNSTON, MSFC/M W CASTLEMAN
CASE Category: 42 – ASTRONAUTICAL ENGR

NAS 8 38609 UNIVERSITY OF ALABAMA – HUNTSVILLE **1202**
ESSENTIAL ENGINEERING SERVICES, RESEARCH AND DEVEL CAPABILITY
04/24/1991 – 03/31/1997 FY97: –$768 Total: $10,264,419
Prin. Invest.: W W VAUGHAN
Tech. Officer: MSFC/L J SMITH, MSFC/D W HIPP
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAS 8 38663 UNIVERSITY OF ALABAMA – HUNTSVILLE **1203**
AN INFORMATION SYSTEM FOR EARTH SYSTEM SCIENCE
11/08/1991 – 11/07/1995 FY97: –$2,572 Total: $849,269
Prin. Invest.: S J GRAVES, R T MCNIDER
Tech. Officer: MSFC/R J KOCZOR
CASE Category: 22 – COMPUTER SCIENCE

NAS 8 39716 UNIVERSITY OF ALABAMA – HUNTSVILLE **1204**
RESEARCH STUDY
02/02/1993 – 05/31/1998 FY97: $80,000 Total: $1,251,588
Prin. Invest.: F ROSENBERGER
Tech. Officer: MSFC/L B JETER
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAS 8 40185 UNIVERSITY OF ALABAMA – HUNTSVILLE **1205**
X–RAY TRANSMISSION MICROSCOPE DEVELOPMENT
02/07/1994 – 08/31/1997 FY97: $0 Total: $273,348
Prin. Invest.: W F KAUKLER
Tech. Officer: MSFC/P A CURRERI
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAS 8 97239 UNIVERSITY OF ALABAMA – HUNTSVILLE **1206**
HISTORY OF MSFC MANUSCRIPT (CONTRACT TRANSFER FROM NAS8–38609)
03/31/1997 – 03/31/1999 FY97: $195,046 Total: $617,760
Prin. Invest.: A J DUNAR
Tech. Officer: MSFC/M D WRIGHT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 5 140 UNIVERSITY OF ALABAMA – HUNTSVILLE **1207**
CINTEX INTERNATIONAL INTEROPERABILITY EXTENSIONS TO EOSDIS
06/10/1996 – 08/31/1997 FY97: $0 Total: $59,974
Prin. Invest.: S GRAVES, H CONOVER
Tech. Officer: GSFC/Y ENLOVE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 5 165 UNIVERSITY OF ALABAMA – HUNTSVILLE **1208**
TO SUPPORT RESEARCH ACTIVITIES UNDER THE NASA EXPE STIMULATE COMPETITIVE RESEARCH (EPSCOR)
11/02/1996 – 05/31/1997 FY97: $999,999 Total: $999,999
Prin. Invest.: J C GREGORY
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 8 22 UNIVERSITY OF ALABAMA – HUNTSVILLE **1209**
GLOBAL CHANGE RESEARCH
09/01/1993 – 02/28/1998 FY97: $1,250,086 Total: $16,319,695
Prin. Invest.: D J PERKEY, S O KIDDER, R T MCNIDER
Tech. Officer: MSFC/L R GREENWOOD, MSFC/J SIMONDS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 8 28 UNIVERSITY OF ALABAMA – HUNTSVILLE **1210**
STUDY VULNERABILITY OF SPACE STATION FREEDOM MODULES
09/07/1993 – 07/31/1997 FY97: $0 Total: $325,004
Prin. Invest.: G R HOUGH
Tech. Officer: MSFC/R E DOTSON, MSFC/K B HAYASHIDA
CASE Category: 49 – ENGINEERING, OTHER

NCC 8 38 UNIVERSITY OF ALABAMA – HUNTSVILLE **1211**
TEMPERATURE DISTRIBUTION OF VAPOR DEPOSITION STUDIES
05/09/1994 – 12/31/1996 FY97: $0 Total: $41,567
Prin. Invest.: R J HUNG
Tech. Officer: MSFC/B G PENN
CASE Category: 46 – MECHANICAL ENGR

NCC 8 65 UNIVERSITY OF ALABAMA – HUNTSVILLE **1212**
RESEARCH & APPLIED TECHNOLOGY & DEVELOPMENT OF FUTURE PROGRAMS
02/15/1995 – 02/14/1998 FY97: $2,361,842 Total: $7,400,618
Prin. Invest.: S T WU
Tech. Officer: MSFC/U URBAN, MSFC/G J FISHMAN
CASE Category: 13 – PHYSICS

NCC 8 99 UNIVERSITY OF ALABAMA – HUNTSVILLE **1213**
SELF–DIFFUSION IN LIQUID ELEMENTS
05/24/1996 – 11/15/1997 FY97: $200,151 Total: $331,080
Prin. Invest.: F ROSENBERGER
Tech. Officer: MSFC/L JETER
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 8 123 UNIVERSITY OF ALABAMA – HUNTSVILLE **1214**
RESEARCH RBCC EJECTOR RAMJET DESIGN OPTIMIZATION
11/22/1996 – 11/30/1997 FY97: $152,000 Total: $152,000
Prin. Invest.: C HAWK
Tech. Officer: MSFC/M FAZAH
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 8 124 UNIVERSITY OF ALABAMA – HUNTSVILLE **1215**
FOR RESEARCH ENT. "DEVELOPMENT OF THE DELTA G EXPERIMENT"
12/04/1996 – 12/03/1997 FY97: $299,885 Total: $299,885
Prin. Invest.: N LI
Tech. Officer: MSFC/R KOCZOR, MSFC/D NOEVER
CASE Category: 13 – PHYSICS

NCC 8 132 UNIVERSITY OF ALABAMA – HUNTSVILLE **1216**
FOR RESEARCH: "CONSORTIUM FOR MATERIALS DEVELOP– MEFNT IN SPACE."
01/29/1997 – 10/31/1997 FY97: $1,695,000 Total: $1,695,000
Prin. Invest.: C A LUNDQUIST
Tech. Officer: MSFC/J WATKINS
CASE Category: 49 – ENGINEERING, OTHER

NCC 8 141 UNIVERSITY OF ALABAMA – HUNTSVILLE **1217**
GLOBAL CHANGE RESEARCH RELATED TO THE EARTH'S ENERGY AND HYDROLOGY CYCLE
09/22/1997 – 09/29/1998 FY97: $2,088,877 Total: $2,088,877
Prin. Invest.: R MCNIDER
Tech. Officer: MSFC/R GREENWOOD, MSFC/J SIMON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 9 49 UNIVERSITY OF ALABAMA – HUNTSVILLE **1218**
SEDSAT 1 DEVELOPMENT AND LAUNCH
12/19/1996 – 01/01/1999 FY97: $134,833 Total: $134,833
Prin. Invest.: M W MAIER
Tech. Officer: JSC/C A O'NEILL
CASE Category: 41 – AERONAUTICAL ENGNR

NCCW 57 UNIVERSITY OF ALABAMA – HUNTSVILLE **1219**
EPSCOR PROGRAM
08/08/1994 – 09/30/1997 FY97: $0 Total: $1,000,000
Prin. Invest.: J GREGORY
Tech. Officer: HQ/L KEFFER, HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 40010 UNIVERSITY OF ALABAMA – HUNTSVILLE **1220**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
09/28/1989 – 09/30/1997 FY97: $0 Total: $3,020,915
Prin. Invest.: C A LUNDQUIST, H WILSON
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51299 UNIVERSITY OF ALABAMA – HUNTSVILLE **1221**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/06/1994 – 07/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: J L HORWITZ
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51355 UNIVERSITY OF ALABAMA – HUNTSVILLE **1222**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/01/1994 – 10/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: J I ALEXANDER
Tech. Officer: HQ/J LYNCH, HQ/G A LESANE
CASE Category: 13 – PHYSICS

NGT 51371 UNIVERSITY OF ALABAMA – HUNTSVILLE **1223**
GRADUATE STUDENT RESEARCHERS PROGRAM
11/22/1994 – 09/05/1996 FY97: $0 Total: $44,000
Prin. Invest.: C W HAWK
Tech. Officer: HQ/E MASSEY
CASE Category: 46 – MECHANICAL ENGR

NGT 51400 UNIVERSITY OF ALABAMA – HUNTSVILLE **1224**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/28/1995 – 06/30/1998 FY97: $0 Total: $22,000
Prin. Invest.: J L HORWITZ
Tech. Officer: MSFC/F SIX
CASE Category: 13 – PHYSICS

NGT 51641 UNIVERSITY OF ALABAMA – HUNTSVILLE **1225**
GRAD STUD RES PROG
08/13/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: M P HICKEY
Tech. Officer: HQ/D HOLLAND
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 70253 UNIVERSITY OF ALABAMA – HUNTSVILLE **1226**
UNV ALABAMA/GRADUATE STUDENT RESEARCHERS PROGRAM
06/21/1992 – 12/31/1996 FY97: $0 Total: $88,000
Prin. Invest.: W P SCHONBERG
Tech. Officer: HQ/M A STOUTSENBERGER
CASE Category: 46 – MECHANICAL ENGR

NGT 70390 UNIVERSITY OF ALABAMA – HUNTSVILLE **1227**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
08/23/1994 – 06/30/1997 FY97: $0 Total: $264,000
Prin. Invest.: P C RICHARDS
Tech. Officer: HQ/D K RUSSELL
CASE Category: 12 – CHEMISTRY

NGT 70421 UNIVERSITY OF ALABAMA – HUNTSVILLE **1228**
GSRP (UNDERREPRESENTED MINORITY & DISABLED FOCUS)
09/06/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: M SANGHADASA
Tech. Officer: HQ/B WHITE, HQ/M STOUTSENBERGER
CASE Category: 13 – PHYSICS

NGT 90248 UNIVERSITY OF ALABAMA – HUNTSVILLE **1229**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
12/27/1994 – 08/14/1996 FY97: $0 Total: $24,000
Prin. Invest.: L RUSSELL
Tech. Officer: HQ/D K RUSSELL
CASE Category: 46 – MECHANICAL ENGR

NGT 1 8021 UNIVERSITY OF ALABAMA – HUNTSVILLE **1230**
A SUMMER FACILTY FELLOWSHIP PROGRAM
01/01/1976 – 03/31/1996 FY97: $0 Total: $4,905,352
Prin. Invest.: G R KARR
Tech. Officer: HQ/A S MCGEE, HQ/E T SCHWARTZ
CASE Category: 49 – ENGINEERING, OTHER

NGT 1 52114 UNIVERSITY OF ALABAMA – HUNTSVILLE **1231**
GRADUATE STUDENT RESEARCHER PROGRAM
06/27/1995 – 06/30/1997 FY97: $1 Total: $44,001
Prin. Invest.: T J CHUNG
Tech. Officer: LARC/M H CARPENTER, LARC/J THOMAS
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 40018 UNIVERSITY OF ALABAMA – HUNTSVILLE **1232**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
01/09/1997 – 01/31/1998 FY97: $380,000 Total: $380,000
Prin. Invest.: J GEOGORY
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40046 UNIVERSITY OF ALABAMA – HUNTSVILLE **1233**
THIS GRANT SUPPORTS A FELLOWSHIP UNDER THE NATIONA COLLEGE AND FELLOWSHIP PROGRAM
02/21/1997 – 12/31/1997 FY97: $74,766 Total: $74,766
Prin. Invest.: J GREORY
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 70004 UNIVERSITY OF ALABAMA – HUNTSVILLE **1234**
GRADUATE STUDENT RESERCH PROGRAM – STUDENTS: MAYR PETTIGREW, AND RUBY LATHON
08/26/1997 – 08/31/1998 FY97: $58,000 Total: $58,000
Prin. Invest.: P G RICHARDS
Tech. Officer: GSFC/M STOUTSENBERGER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90020 UNIVERSITY OF ALABAMA – HUNTSVILLE **1235**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
01/24/1997 – 08/14/1997 FY97: $35,850 Total: $35,850
Prin. Invest.: L RUSSELL
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 46 – MECHANICAL ENGR

NGT 8 52804 UNIVERSITY OF ALABAMA – HUNTSVILLE **1236**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/28/1995 – 07/31/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: D FEIKEMA
Tech. Officer: MSFC/J J HUTT
CASE Category: 46 – MECHANICAL ENGR

NGT 8 52812 UNIVERSITY OF ALABAMA – HUNTSVILLE **1237**
JOVE
09/25/1995 – 08/31/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: D FORK
Tech. Officer: MSFC/J BILBRO
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 8 52825 UNIVERSITY OF ALABAMA – HUNTSVILLE **1238**
R/S GRAD STUDENT RESEARCH PROGRAM
08/26/1996 – 08/31/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: D HAWK
Tech. Officer: MSFC/F SIX, MSFC/E HYDE
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 8 52833 UNIVERSITY OF ALABAMA – HUNTSVILLE **1239**
GRADUATE STUDENT RESEARCHERS PROGRAM – FELLOWSHIP FOR GARRY M ESTEP
09/25/1996 – 07/01/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: J L HORWITZ
Tech. Officer: MSFC/J R PRUITT
CASE Category: 13 – PHYSICS

NGT 8 52836 UNIVERSITY OF ALABAMA – HUNTSVILLE **1240**
1997 SUMMER FACULTY FELLOWSHIP PROGRAM
03/28/1997 – 01/01/1998 FY97: $792,002 Total: $792,002
Prin. Invest.: G R KARR, L M FREEMAN
Tech. Officer: MSFC/J R DOWDY, MSFC/J R PRUITT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 8 52837 UNIVERSITY OF ALABAMA – HUNTSVILLE **1241**
"1997 NASA ACADEMY" UNDER THE DIRECTION OF DR. GERALD KARR.
05/29/1997 – 12/01/1997 FY97: $69,377 Total: $69,377
Prin. Invest.: G R KARR
Tech. Officer: MSFC/J R DOWDY, MSFC/J R PRUITT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 8 52843 UNIVERSITY OF ALABAMA – HUNTSVILLE **1242**
GRADUATE STUDENT RESEARCHERS PROGRAM FELLOWSHIP
08/05/1997 – 08/31/2000 FY97: $22,000 Total: $22,000
Prin. Invest.: Y B SHTESSEL
Tech. Officer: MSFC/J H DOWDY
CASE Category: 45 – ELECTRICAL ENGR

NGT 9 5 UNIVERSITY OF ALABAMA – HUNTSVILLE **1243**
DIAGNOSTICS OF EXTERNAL PLASMA
05/31/1995 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: G KARR
Tech. Officer: JSC/D G SOCKOREZ
CASE Category: 13 – PHYSICS

NAG 3 1564 UNIVERSITY OF ALABAMA – UNIVERSITY **1244**
GENETIC ALGOTITHMS SOFTWARE DEVELOPMENT AND APPLIC ATION TO CONTROLLER PARTITIONING
01/14/1994 – 03/10/1997 FY97: $44,270 Total: $151,132
Prin. Invest.: K S KRISHNAKUMAR
Tech. Officer: LERC/S GARG
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 2004 UNIVERSITY OF ALABAMA – UNIVERSITY **1245**
INTELLIGENT ENGINE CONTROL
01/10/1997 – 09/30/1999 FY97: $44,982 Total: $44,982
Prin. Invest.: K S KRISHNAKUMAR
Tech. Officer: LERC/J R SAUS
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 1973 UNIVERSITY OF ALABAMA – UNIVERSITY **1246**
SURFACE BRIGHTNESS PROFILES AND ENERGETICS OF INTE RCLUSTER GAS IN COOL GALAXY CLUSTERS
05/19/1992 – 03/31/1998 FY97: $0 Total: $50,000
Prin. Invest.: R E WHITE
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2402 UNIVERSITY OF ALABAMA – UNIVERSITY **1247**
THE TEMPERATURE, ABUNDANCE, ABSORPTION, AND DARK M ATTER DISTRIBUTION IN CLUSTERS OF GALAXIES
10/22/1993 – 10/31/1996 FY97: $0 Total: $30,260
Prin. Invest.: M J HENRIKSEN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2574 UNIVERSITY OF ALABAMA – UNIVERSITY **1248**
ABUNDANCE GRADIENTS IN INTRACLUSTER GAS
04/12/1994 – 04/14/1998 FY97: $0 Total: $73,909
Prin. Invest.: R E WHITE III
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2703 UNIVERSITY OF ALABAMA – UNIVERSITY **1249**
ISM – IGM INTERACTIONS AND SPIRAL DISKS
08/24/1994 – 12/31/1996 FY97: $0 Total: $20,000
Prin. Invest.: W KEEL
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2779 UNIVERSITY OF ALABAMA – UNIVERSITY **1250**
SPECTRAL OBSERVATIONS OF MERGINS SUBCLUSTERS OF GA LAXIES
11/07/1994 – 05/14/1996 FY97: –$1 Total: $14,999
Prin. Invest.: M HENRIKSEN
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2990 UNIVERSITY OF ALABAMA – UNIVERSITY **1251**
STAR FORMATION AND THE INTERSTELLAR MEDIUM IN SO GALAXIES USING ROSAT POINTED OB
06/30/1995 – 07/14/1998 FY97: $0 Total: $47,900
Prin. Invest.: P B ESKRIDGE
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3336 UNIVERSITY OF ALABAMA – UNIVERSITY **1252**
DUST EMISSION AND ABSORPTION IN BACKLIT SPIRAL GAL AXIES
08/09/1996 – 08/14/1998 FY97: $0 Total: $22,500
Prin. Invest.: W C KEEL
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4346 UNIVERSITY OF ALABAMA – UNIVERSITY **1253**
PROJECT NOVA
05/01/1997 – 02/28/1998 FY97: $450,000 Total: $450,000
Prin. Invest.: M FREEMAN
Tech. Officer: GSFC/D V GALLAWAY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 6053 UNIVERSITY OF ALABAMA – UNIVERSITY **1254**
QUANTIFICATION OF NEUTRAL WIND VARIABILITY IN THE
07/28/1997 – 06/30/1998 FY97: $75,767 Total: $75,767
Prin. Invest.: D RICHARD
Tech. Officer: GSFC/M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 6174 UNIVERSITY OF ALABAMA – UNIVERSITY **1255**
NUMERICAL AND THEORETICAL STUDIES OF THE INITIATIO HE CORONAL MASS EJECTIONS (CMES)
08/05/1997 – 05/31/1998 FY97: $59,731 Total: $59,731
Prin. Invest.: D WU
Tech. Officer: GSFC/W WAGNER
CASE Category: 13 – PHYSICS

NAG 5 6314 UNIVERSITY OF ALABAMA – UNIVERSITY **1256**
FAR-WING LINE SHAPE: APPLICATION TO THE VENUSIAN
09/11/1997 – 09/14/1998 FY97: $67,000 Total: $67,000
Prin. Invest.: D TIPPING
Tech. Officer: GSFC/S HOWARD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 228 UNIVERSITY OF ALABAMA – UNIVERSITY **1257**
COOLING FLOW SPECTRAIN GINGA GALAXY CLUSTERS
03/16/1992 – 03/14/1997 FY97: $0 Total: $37,200
Prin. Invest.: R E WHITE
Tech. Officer: MSFC/J VARGUS
CASE Category: 11 – ASTRONOMY

NAG 8 279 UNIVERSITY OF ALABAMA – UNIVERSITY **1258**
RESEARCH STUDY
01/14/1993 – 01/31/1998 FY97: $0 Total: $193,589
Prin. Invest.: K W WHITAKER, K S KRISHNAKUMAR
Tech. Officer: MSFC/W T POWERS, MSFC/A E COOPER
CASE Category: 13 – PHYSICS

NAG 8 1059 UNIVERSITY OF ALABAMA – UNIVERSITY **1259**
ASSESSMENT OF IMPACT DAMAGE IN 18" DIAMETER FILA- MENT WOUND COMPOSITE PRESSUREBOTTLES
06/14/1994 – 06/30/1996 FY97: –$2,136 Total: $41,273
Prin. Invest.: A L HIGHSMITH *Prin. Invest.:* NONE
Tech. Officer: MSFC/F E LEDBETTER, MSFC/A T NETTLES
CASE Category: 46 – MECHANICAL ENGR

NAG 8 1106 UNIVERSITY OF ALABAMA – UNIVERSITY **1260**
ANALYSIS SUPPORT OF REUSABLE VEHICLES
03/09/1995 – 12/31/1995 FY97: $0 Total: $10,000
Prin. Invest.: J A MARTIN
Tech. Officer: MSFC/U HUETER
CASE Category: 22 – COMPUTER SCIENCE

NAG 8 1301 UNIVERSITY OF ALABAMA – UNIVERSITY **1261**
RESEARCH "1996 SUMMER TEACHER ENRICHMENT PROGRAM"
07/24/1996 – 03/31/1998 FY97: $0 Total: $187,000
Prin. Invest.: L FREEMAN, G KARR
Tech. Officer: MSFC/J PRIUTT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 1322 UNIVERSITY OF ALABAMA – UNIVERSITY **1262**
RESEARCH "LAUNCH VEHICLES WITH MHD PROPULSION STUDY"
01/30/1997 – 01/30/1998 FY97: $47,508 Total: $47,508
Prin. Invest.: J A MARTIN
Tech. Officer: MSFC/G A ROBERTSON
CASE Category: 13 – PHYSICS

NAG 8 1407 UNIVERSITY OF ALABAMA – UNIVERSITY **1263**
EMA CONTROLLER ARCHITECTURE SELECTION AND DESIGN
09/05/1997 – 09/04/1998 FY97: $45,000 Total: $45,000
Prin. Invest.: T MASKEY, D SCHINSTOCK
Tech. Officer: MSFC/J R COWAN
CASE Category: 46 – MECHANICAL ENGR

NAG 9 921 UNIVERSITY OF ALABAMA – UNIVERSITY **1264**
DEVELOP RISK ID EXPERT SYSTEM FOR ISS
12/16/1996 – 12/19/1997 FY97: $132,209 Total: $132,209
Prin. Invest.: G P MOYNIHAN
Tech. Officer: JSC/D K WILSON, JSC/F KUO
CASE Category: 49 – ENGINEERING, OTHER

NAGW 3785 UNIVERSITY OF ALABAMA – UNIVERSITY **1265**
THEORETICAL CALCULATION OF THE CONTINUOUS FAR-WING
09/29/1993 – 12/31/1995 FY97: –$3 Total: $102,997
Prin. Invest.: R H TIPPING
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4405 UNIVERSITY OF ALABAMA – UNIVERSITY **1266**
PROJECT NOVA
04/21/1995 – 02/28/1998 FY97: $0 Total: $1,244,559
Prin. Invest.: D SUNAL, M FREEMAN
Tech. Officer: HQ/M HENDERSON
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4455 UNIVERSITY OF ALABAMA – UNIVERSITY **1267**
IONOSPHERE–PLASMASPHERE MODELING IN SUPPORT OF SATELLITE GLOBAL IMAGING
05/02/1995 – 12/30/1996 FY97: $0 Total: $111,777
Prin. Invest.: P G RICHARDS
Tech. Officer: HQ/J BOHLIN
CASE Category: 13 – PHYSICS

NAGW 5221 UNIVERSITY OF ALABAMA – UNIVERSITY **1268**
FAR–WING LINE SHAPE: APPLICATION TO VENUSIAN ATMO SPHERE
11/13/1996 – 07/14/1998 FY97: $57,400 Total: $57,400
Prin. Invest.: T TIPPING
Tech. Officer: HQ/J BERGSTRALH, HQ/H C BRINTON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 8 39715 UNIVERSITY OF ALABAMA – UNIVERSITY **1269**
PARTICLE INGULFMENT AND PUSHING BY SOLIDFYING INTE RFACES
02/17/1993 – 08/15/1998 FY97: $154,118 Total: $747,266
Prin. Invest.: D M STEFANESCU, P A CURRERI, B K DHINDAW
Tech. Officer: MSFC/T DE LOACH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 8 57 UNIVERSITY OF ALABAMA – UNIVERSITY **1270**
MICRO AND MACRO SEGREGATION IN ALLOYS SOLIDIFIYING WITH EQUIAXED MORPHOLOGY
08/19/1994 – 07/30/1996 FY97: –$15,060 Total: $73,887
Prin. Invest.: D M STEFANESCU, L NASTAC
Tech. Officer: MSFC/P A CURRERERI, MSFC/R P SILVER
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 8 114 UNIVERSITY OF ALABAMA – UNIVERSITY **1271**
R/S HIGHLY REUSALBE SPACE TRANSPORTATION STUDY
07/16/1996 – 08/15/1997 FY97: $29,400 Total: $58,800
Prin. Invest.: J A MARTIN
Tech. Officer: MSFC/J T HOWELL
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51245 UNIVERSITY OF ALABAMA – UNIVERSITY **1272**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/31/1994 – 08/14/1996 FY97: –$16,168 Total: $27,832
Prin. Invest.: A KATZ
Tech. Officer: LARC/L EVANS
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 70379 UNIVERSITY OF ALABAMA – UNIVERSITY **1273**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
08/22/1994 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: J K PARKER
Tech. Officer: HQ/D K RUSSELL
CASE Category: 46 – MECHANICAL ENGR

NGT 90224 UNIVERSITY OF ALABAMA – UNIVERSITY **1274**
UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
09/14/1993 – 08/14/1996 FY97: $0 Total: $36,000
Prin. Invest.: G SINGLETON
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 1 52115 UNIVERSITY OF ALABAMA – UNIVERSITY **1275**
GRADUATE STUDENT RESEARCHER PROGRAM
06/27/1995 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: C J TUCKER, K N FREEMAN
Tech. Officer: LARC/R A THOMPSON, LARC/R G WILMOTH
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 1 52129 UNIVERSITY OF ALABAMA – UNIVERSITY **1276**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
05/22/1996 – 06/30/1997 FY97: –$22,000 Total: $0
Prin. Invest.: D FLEEMAN, K J NICOLOSI
Tech. Officer: LARC/E G WAGGONER, LARC/K M JONES
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 4 52403 UNIVERSITY OF ALABAMA – UNIVERSITY **1277**
GENETICS–BASED ADAPTIVE AGENTS FOR STRATEGY LEARNING IN AEROSPACE APPLICATIONS
07/16/1996 – 07/31/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: R E SMITH
Tech. Officer: DFRC/K GUPTA
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 50094 UNIVERSITY OF ALABAMA – UNIVERSITY **1278**
GRAVITY WAVE ENERGETICS DETERMINED FROM COINCIDENT GROUND–BASED OBSERVATIONS OFAIRGLOW EMISSIONS/ G
08/26/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D HICKEY
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 11 – ASTRONOMY

NGT 5 50129 UNIVERSITY OF ALABAMA – UNIVERSITY **1279**
DETERMINING LYMPHOCYTE RESPONSIVENESS TO LOW GRAVI
09/09/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: M å LEWIS
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 8 52817 UNIVERSITY OF ALABAMA – UNIVERSITY **1280**
GRAD STUDENT RESEARCHERS PROGRAM
07/25/1996 – 05/31/1999 FY97: $22,000 Total: $44,000
Prin. Invest.: J S LANG
Tech. Officer: MSFC/C S CORNELIUS
CASE Category: 49 – ENGINEERING, OTHER

NGT 8 52819 UNIVERSITY OF ALABAMA – UNIVERSITY **1281**
"1996 SUMMER FACULTY FELLOWSHIP PROGRAM"
07/24/1996 – 01/01/1998 FY97: $439,346 Total: $914,346
Prin. Invest.: L M FREEMAN
Tech. Officer: MSFC/F SIX
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 8 52835 UNIVERSITY OF ALABAMA – UNIVERSITY **1282**
GRADUATE STUDENT RESEARCHERS PROGRAM "FELLOWSHIP FOR MICHAEL W. TODD"
11/14/1996 – 08/01/1999 FY97: $44,000 Total: $44,000
Prin. Invest.: M W TODD
Tech. Officer: MSFC/J BILBRO
CASE Category: 46 – MECHANICAL ENGR

NAG13 37 UNIVERSITY OF NORTH ALABAMA **1283**
TO PREPARE STUDENTS FOR CAREES IN NATURAL AND CULTURAL RESOURCE MANAGEMENT
04/30/1996 – 03/30/1997 FY97: –$11,391 Total: $18,434
Prin. Invest.: L K MATHEWS
Tech. Officer: SSC/V ZANONI
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG13 58 UNIVERSITY OF NORTH ALABAMA **1284**
SMALL SPACECRAFT TECHNOLOGY INITIATIVE SAME
09/12/1997 – 09/11/1998 FY97: $24,876 Total: $24,876
Prin. Invest.: L KEYS–MATHEWS
Tech. Officer: SSC/V ZANONI
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 1 1911 UNIVERSITY OF SOUTH ALABAMA **1285**
INITIALIZATION AND SIMULATIONS OF THREE–DIMENSIONAL AIRCRAT WAKE VORTICES
03/19/1997 – 01/31/1998 FY97: $23,721 Total: $23,721
Prin. Invest.: Z C ZHENG
Tech. Officer: LARC/F H PROCTOR
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 1050 UNIVERSITY OF SOUTH ALABAMA **1286**
SMART OPTICAL RAM FOR FAST INFORMATION MANAGEMENT & ANALYSIS
06/06/1996 – 05/31/1998 FY97: $124,888 Total: $249,830
Prin. Invest.: H K LIU
Tech. Officer: ARC/C K GARY
CASE Category: 45 – ELECTRICAL ENGR

NAG 8 1397 UNIVERSITY OF SOUTH ALABAMA **1287**
R/S "DEVELOPMENT OF COUNTERMEASURES & EXERCISE PROTOCOLS TO REDUCE THE EFFECT OF MICROGRAVITY
07/23/1997 – 08/31/1998 FY97: $20,914 Total: $20,914
Prin. Invest.: P KULKARNI
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

ALASKA

NAG 8 1282 UNIVERSITY OF ALASKA – ANCHORAGE **1288**
RESEARCH JOVE
01/21/1997 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: J A OLOFSSON
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCCW 42 UNIVERSITY OF ALASKA – ANCHORAGE **1289**
ALASKA TECHNOLOGY TRANSFER ASSISTANCE CENTER
06/28/1994 – 06/30/1998 FY97: $0 Total: $321,000
Prin. Invest.: J FREDERICKS
Tech. Officer: HQ/J ROOT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 699 UNIVERSITY OF ALASKA – FAIRBANKS **1290**
FACILITIES & RESEARCH INSTRUMENTATION DEVELOPMENT AT THE POKER FLAT RESEARCH RANGE
04/14/1993 – 09/30/1996 FY97: $0 Total: $7,586,906
Prin. Invest.: S A KASOFU
Tech. Officer: GSFC/B J FLOWERS, GSFC/M J ELLIS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 1097 UNIVERSITY OF ALASKA – FAIRBANKS **1291**
ATMOSPHERE IONOSPHERE MAGNETOSPHERE SYSTEM
11/01/1988 – 03/31/1998 FY97: $150,000 Total: $1,315,000
Prin. Invest.: M H REES
Tech. Officer: GSFC/S A CURTIS, GSFC/M H ACUNA
CASE Category: 13 – PHYSICS

NAG 5 1504 UNIVERSITY OF ALASKA – FAIRBANKS **1292**
A STUDY OF SOLAR WIND–MAGNETOSPHERE INTERACTION AT THE DAY-SIDE AND NIGHTSIDE MAGNETOPAUSE
03/19/1991 – 11/30/1997 FY97: $0 Total: $1,224,941
Prin. Invest.: L C LEE
Tech. Officer: GSFC/T J BIRMINGHAM
CASE Category: 13 – PHYSICS

NAG 5 3582 UNIVERSITY OF ALASKA – FAIRBANKS **1293**
FAST CONJUGATE AIRCRAFT OBSERVATIONS
11/15/1996 – 11/14/1998 FY97: $321,403 Total: $321,403
Prin. Invest.: H STENBAEK–NIELSEN, T J HALLINAN
Tech. Officer: GSFC/R F PFAFF, JR.
CASE Category: 13 – PHYSICS

NAG 5 4068 UNIVERSITY OF ALASKA – FAIRBANKS **1294**
SAR, INTEREROMETRY, AND GACIER DYNAMICS IN NW NORT
03/20/1997 – 02/28/1998 FY97: $87,287 Total: $87,287
Prin. Invest.: C LINGLE
Tech. Officer: GSFC/R H THOMAS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4170 UNIVERSITY OF ALASKA – FAIRBANKS **1295**
CLIMATE SENSITIVITY OF THAW LAKE SYSTEMS
03/27/1997 – 12/31/1997 FY97: $40,635 Total: $40,635
Prin. Invest.: D JEFFRIES
Tech. Officer: GSFC/R H THOMAS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4269 UNIVERSITY OF ALASKA – FAIRBANKS **1296**
UNIQUE SIMULTANEOUS OBSERVATIONS OF THE CONJUGATE HEMI-SPHERES WITH THE DYNAMICS EXPLORER AND VIKING
03/25/1997 – 05/14/1998 FY97: $32,997 Total: $32,997
Prin. Invest.: D CRAVEN
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 4369 UNIVERSITY OF ALASKA – FAIRBANKS **1297**
DEFORMATION OF ALASKAN VOLCANOES MEASURED BY RADAR
05/14/1997 – 04/30/1998 FY97: $40,064 Total: $40,064
Prin. Invest.: D FREYMUELLER
Tech. Officer: GSFC/S P GOGINENI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4517 UNIVERSITY OF ALASKA – FAIRBANKS **1298**
OPTICAL SATELLITE REMOTE SEINSING OF FOREST CANOPY THE SUB-ARCTIC LANDSCAPE
07/03/1997 – 06/30/1998 FY97: $29,146 Total: $29,146
Prin. Invest.: D L VERBYLA
Tech. Officer: GSFC/D K HALL
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4981 UNIVERSITY OF ALASKA – FAIRBANKS **1299**
ELEVATION CHANGES, INTERANNUAL VARIABILITY, AND AN DYNAMICS FROM ERS, GEOSTAT ANDSEASAT RADA ALTIME
07/18/1997 – 07/14/1998 FY97: $108,000 Total: $108,000
Prin. Invest.: C LINGLE
Tech. Officer: GSFC/S GOGINENI
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 5000 UNIVERSITY OF ALASKA – FAIRBANKS **1300**
SHAPED CHARGE INJECTION OF FIELD ALIAGNED BA AND CA PLASMA TO INVESTIGATI THE PHYSICS OF MASSED VEPE
03/29/1993 – 04/30/1997 FY97: $0 Total: $460,383
Prin. Invest.: E WESCOTT
Tech. Officer: GSFC/L J EARLY, GSFC/P H PLESS
CASE Category: 13 – PHYSICS

NAG 5 5013 UNIVERSITY OF ALASKA – FAIRBANKS **1301**
MICRO–SCALE AURORAL IMAGING TO COMPLIMENT THE AURORAL MICROPHYSICS ROCKET EXPERIMENT
05/19/1993 – 06/30/1997 FY97: $0 Total: $50,458
Prin. Invest.: T J HALLINAN
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 11 – ASTRONOMY

NAG 5 5019 UNIVERSITY OF ALASKA – FAIRBANKS **1302**
VIDEO–IMAGING OF IONOSPHERIC–UPPER ATMOSPHERIC OPTICAL FLASHES FROM AIRCRAFT
03/10/1994 – 08/31/1998 FY97: $0 Total: $1,460,158
Prin. Invest.: D D SENTMAN
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 5097 UNIVERSITY OF ALASKA – FAIRBANKS **1303**
A CO–INVESTIGATOR PROPOSAL FOR THE CORNELL UNIVERSITY CAPER
12/20/1996 – 12/31/1998 FY97: $151,949 Total: $151,949
Prin. Invest.: C DEEHR
Tech. Officer: GSFC/W GURKIN
CASE Category: 13 – PHYSICS

NAG 5 5125 UNIVERSITY OF ALASKA – FAIRBANKS **1304**
GROUND AND BALLOON–BORNE OBSERVATIONS OF RED SPRITES AND BLUE JETS
07/02/1997 – 01/31/1998 FY97: $16,898 Total: $16,898
Prin. Invest.: E WESTCOTT
Tech. Officer: GSFC/H NEEDLEMAN
CASE Category: 13 – PHYSICS

NAG 5 6219 UNIVERSITY OF ALASKA – FAIRBANKS **1305**
PLASMA STRUCTURE AND PROCESSES AT THE MAGNETOSPHER
09/11/1997 – 05/14/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: D OTTO
Tech. Officer: HQ/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 6275 UNIVERSITY OF ALASKA – FAIRBANKS **1306**
THE ROLE OF LAND–COVER CHANGE IN HIGH LATITUDE ECO FOR THE GLOBAL CARBON CYCLE
08/27/1997 – 02/14/1999 FY97: $292,500 Total: $292,500
Prin. Invest.: D MCGUIRE
Tech. Officer: GSFC/A JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 2165 UNIVERSITY OF ALASKA – FAIRBANKS **1307**
IMPACT OF STRATOSPHERIC AEROSOLS AND TROPOSPHERIC CLOUDS OF STRATOSPHERIC PHOTODISSOCIATION HEATING
06/20/1990 – 03/31/1997 FY97: $0 Total: $457,901
Prin. Invest.: K STAMNES
Tech. Officer: HQ/R D MCPETERS, HQ/M J PRATHER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3436 UNIVERSITY OF ALASKA – FAIRBANKS **1308**
MODEL AURORAL ELECTRON PRECIPITATION PATTERNS FOR COUPLED THERMO. ION. SIM
03/10/1993 – 03/31/1997 FY97: $0 Total: $177,231
Prin. Invest.: J D CRAVEN
Tech. Officer: HQ/M M MELLOTT, HQ/G L WITHBROE
CASE Category: 13 – PHYSICS

NAGW 3441 UNIVERSITY OF ALASKA – FAIRBANKS **1309**
ASYMETRIC DEVELOPMENT OF THE AURORAL BULGE DURING SUB-STORM EXPANSION
03/10/1993 – 02/28/1997 FY97: $0 Total: $144,637
Prin. Invest.: J D CRAVEN
Tech. Officer: HQ/E C WHIPPLE, HQ/G L WITHBROE
CASE Category: 13 – PHYSICS

NAGW 3727 UNIVERSITY OF ALASKA – FAIRBANKS **1310**
ELEVATION CHANGES OF MOUNTAIN GLACIERS AS MEASURED BY AIR-BORNE LASER ALTIMETRY
09/10/1993 – 08/31/1997 FY97: $0 Total: $533,528
Prin. Invest.: W D HARRISON, K A ECHELMEYER
Tech. Officer: HQ/R H THOMAS, HQ/R A SCHIFFER
CASE Category: 39 – ENVIRONMENTAL SCI,OTHER

NAGW 3728 UNIVERSITY OF ALASKA – FAIRBANKS **1311**
EXPERIMENTAL STUDY OF PHYSICAL AND CHEMICAL PROPER TIES OF CLOUD CONDENSATION NUCLEI
09/03/1993 – 06/30/1997 FY97: $0 Total: $464,251
Prin. Invest.: G E SHAW, R L BENNER
Tech. Officer: HQ/J T SUTTERS, HQ/A C JANETOS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4048 UNIVERSITY OF ALASKA – FAIRBANKS **1312**
FAST CONJUGATE AIRCRAFT OBSERVATIONS
07/15/1994 – 09/30/1996 FY97: $0 Total: $342,037
Prin. Invest.: H C STENBAEK–NIELSEN
Tech. Officer: HQ/R HOWARD, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4371 UNIVERSITY OF ALASKA – FAIRBANKS **1313**
ELEVATION CHANGES, INTERANNUAL VARIABILITY, AND ANTARCTIC ICE SHEETS DYNAMICS FROM ERS, GEOSAT
03/31/1995 – 09/30/1997 FY97: $0 Total: $214,112
Prin. Invest.: C S LINGLE
Tech. Officer: HQ/R H THOMAS, HQ/M BALTUCK
CASE Category: 39 – ENVIRONMENTAL SCI,OTHER

NAGW 4904 UNIVERSITY OF ALASKA – FAIRBANKS **1314**
ALASKAN AURORAL ALL SKY IMAGES
01/26/1996 – 11/30/1996 FY97: $0 Total: $9,728
Prin. Invest.: H STENBAEK–NELSON
Tech. Officer: HQ/J WILLETT
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4930 UNIVERSITY OF ALASKA – FAIRBANKS **1315**
SAR, INTERFEROMETRY, & GLACIER DYNAMICS IN NORTHWE ST NORTH AMERICA
02/12/1996 – 09/30/1997 FY97: $0 Total: $93,072
Prin. Invest.: C LINGLE
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4966 UNIVERSITY OF ALASKA – FAIRBANKS **1316**
CLIMATE SENSITIVITY OF THAW LAKE SYSTEMS ON THE AL ASKAN NORTH SLOPE
02/24/1996 – 09/30/1997 FY97: $0 Total: $86,024
Prin. Invest.: M JEFFRIES, T ZHANG
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4969 UNIVERSITY OF ALASKA – FAIRBANKS **1317**
RADARSAT IN SUPPORT OF THE ANTARCTIC COASTAL POLYN YA PILOT STUDY
02/27/1996 – 09/30/1997 FY97: $0 Total: $39,262
Prin. Invest.: M JEFFRIES, V LYTLE
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 33 – OCEANOGRAPHY

NAGW 5077 UNIVERSITY OF ALASKA – FAIRBANKS **1318**
DEFORMATIONS OF ALASKA VOLCANOES MEASURED BY SATELLITE RADAR INTERFOROMETRY
05/29/1996 – 04/30/1997 FY97: $0 Total: $40,464
Prin. Invest.: F FREYMUELLER, M WYSS, K DEAN
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 5205 UNIVERSITY OF ALASKA – FAIRBANKS **1319**
TEMPORAL AND SPATIAL SYNOPTIC VARIANCE OF SEA ICE IN THE RUS-SIAN ARTIC AND THE CAUSATIVE PROCESSES
10/03/1996 – 07/14/1997 FY97: $45,078 Total: $45,078
Prin. Invest.: D L JOHNSON
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 33 – OCEANOGRAPHY

NAS 3 26401 UNIVERSITY OF ALASKA – FAIRBANKS **1320**
ACTS PROPAGATION EXPERIMENTS IN ALASKA
05/24/1993 – 03/31/1998 FY97: $177,048 Total: $650,620
Prin. Invest.: C E MAYER
Tech. Officer: LERC/R J GUNDERMAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAS 5 32206 UNIVERSITY OF ALASKA – FAIRBANKS **1321**
MAINTENANCE/MISSION SUPPORT OF POKER FLAT RESEARCH RANGE
10/31/1994 – 10/31/1999 FY97: $1,279,340 Total: $5,788,298
Prin. Invest.: S SCHWATAL
Tech. Officer: GSFC/M J FILLIS, GSFC/B J FLOWERS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 32393 UNIVERSITY OF ALASKA – FAIRBANKS **1322**
OPERATION & MANAGEMENT OF ALASKA SYNTHETIC APERTURE RADAR FACILITY
04/01/1993 – 04/01/1998 FY97: $9,315,000 Total: $26,335,800
Prin. Invest.: G WELLER
Tech. Officer: GSFC/G HUNOLT
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 5 97133 UNIVERSITY OF ALASKA – FAIRBANKS **1323**
HIGH–LATITUDE INTERCOMPARISON & VALIDATION EXPERIMENT
09/15/1997 – 09/14/1998 FY97: $185,004 Total: $185,004
Prin. Invest.: D L ESLINGER
Tech. Officer: GSFC/C MCCLAIN
CASE Category: 33 – OCEANOGRAPHY

NAS 5 97138 UNIVERSITY OF ALASKA – FAIRBANKS **1324**
RESEARCH—NUMERICAL RADIATIVE TRANSFER MODELING EXPERIMENTS & ASSOC. ANALYSES
09/23/1997 – 09/22/1998 FY97: $150,001 Total: $150,001
Prin. Invest.: K STAMNES
Tech. Officer: GSFC/C MCCLAIN
CASE Category: 33 – OCEANOGRAPHY

NAS 5 97139 UNIVERSITY OF ALASKA – FAIRBANKS **1325**
RESEARCH—ATMOSPHERIC CORRECTION ALGORITHMS FOR OCEAN COLOR REMOTE SENSING
09/23/1997 – 09/22/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: K STAMNES
Tech. Officer: GSFC/C MCCLAIN
CASE Category: 33 – OCEANOGRAPHY

NCA 5 112 UNIVERSITY OF ALASKA – FAIRBANKS **1326**
PROCESSING SYNTHETIC APERTURE RADAR DATA
04/27/1988 – 02/28/1998 FY97: $1,804,382 Total: $17,881,470
Prin. Invest.: J MILLER, W F WEEKS, G WELLER
Tech. Officer: GSFC/G H TROFFORD
CASE Category: 11 – ASTRONOMY

NCC 5 75 UNIVERSITY OF ALASKA – FAIRBANKS **1327**
MODIS/SNOW MAPPING: IN–SITU MEASUREMENTS ON TE SN OW OF INTERIOR AND ARCTIC ALASKA
07/11/1994 – 07/31/1997 FY97: $0 Total: $70,000
Prin. Invest.: C BENSON
Tech. Officer: GSFC/D HALL
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 5 89 UNIVERSITY OF ALASKA – FAIRBANKS **1328**
POSTSEISMIC DEFORMATION AFTER THE 1964 GREAT ALASK AN EARTHQUAKE: COLLABORATIVE RESEARCH WITH GODD.
05/05/1995 – 09/30/1997 FY97: $15,600 Total: $43,176
Prin. Invest.: J FREYMUELLER, M WYSS
Tech. Officer: GSFC/S C COHEN
CASE Category: 32 – GEOLOGICAL SCIENCE

NCC 5 213 UNIVERSITY OF ALASKA – FAIRBANKS **1329**
MODIS/SNOW MAPPING: IN–SITU MEASUREMENTS ON THE S AND ARCTIC ALASKA
06/27/1997 – 07/31/1998 FY97: $25,000 Total: $25,000
Prin. Invest.: C BENSON
Tech. Officer: GSFC/D HALL
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 40022 UNIVERSITY OF ALASKA – FAIRBANKS **1330**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
03/29/1991 – 08/31/1997 FY97: $0 Total: $1,004,000
Prin. Invest.: J G HAWKINS
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30039 UNIVERSITY OF ALASKA – FAIRBANKS **1331**
SHALLOW LAKE PROCESSES AND METHANE FLUX TO THE ATM BREAK–UP OF HIGH LATITUDE LAKES
10/17/1996 – 08/31/1997 FY97: $44,000 Total: $44,000
Prin. Invest.: K PETERSON
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 40014 UNIVERSITY OF ALASKA – FAIRBANKS **1332**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM
02/10/1997 – 02/28/1998 FY97: $170,000 Total: $170,000
Prin. Invest.: J G HAWKINS
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

ARIZONA

NAG 1 562 ARIZONA STATE UNIVERSITY **1333**
ELECTROMAGNETIC BACKSCATTERING BY CORNER REFLECTORS
01/22/1985 – 01/31/1996 FY97: $63 Total: $359,853
Prin. Invest.: C A BALANIS
Tech. Officer: LARC/M C GILREATH
CASE Category: 45 – ELECTRICAL ENGR

NAG 1 1082 ARIZONA STATE UNIVERSITY **1334**
ADVANCED ELECTROMAGNETIC METHODS FOR AEROSPACE VEHICLES
12/15/1989 – 12/31/1998 FY97: $100,736 Total: $721,636
Prin. Invest.: C A BALANIS
Tech. Officer: LARC/G C BARBER, LARC/T G CAMPBELL
CASE Category: 45 – ELECTRICAL ENGR

NAG 1 1158 ARIZONA STATE UNIVERSITY **1335**
NUMERICAL SIMULATION OF SWEPT–WING FLOWS.
07/09/1990 – 09/30/1996 FY97: –$35 Total: $214,465
Prin. Invest.: H L REED
Tech. Officer: LARC/C L STREETT, LARC/A KUMAR
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1630 ARIZONA STATE UNIVERSITY **1336**
HYBRID CEM TECHNIQUES FOR ADVANCED ANTENNA RADIATION PREDICTION CODES
06/07/1994 – 06/06/1996 FY97: $0 Total: $104,094
Prin. Invest.: J T ABERLE, C BALANIS
Tech. Officer: LARC/D G SHIVELY, LARC/F B BECK
CASE Category: 45 – ELECTRICAL ENGR

NAG 1 1648 ARIZONA STATE UNIVERSITY **1337**
MODELING AND ANALYSIS OF COMPOSITE WING SECTIONS FOR IMPROVED AEROELASTIC AND VIBRATION
10/28/1994 – 12/31/1997 FY97: $30,000 Total: $90,000
Prin. Invest.: A CHATTOPADHYAY
Tech. Officer: LARC/J HEEG
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1731 ARIZONA STATE UNIVERSITY **1338**
ANISOPARAMETRIC NONLINEAR BEAM AND SHELL ELEMENTS MY 1/3
05/26/1995 – 05/31/1998 FY97: $47,816 Total: $82,569
Prin. Invest.: E MADENCI
Tech. Officer: LARC/L TESSLER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1781 ARIZONA STATE UNIVERSITY **1339**
PENETRATION OF HIGH–INTENSITY RADIATED FIELDS INTO GENERAL AVIATION AIRCRAFT
12/13/1995 – 12/07/1997 FY97: $110,000 Total: $257,096
Prin. Invest.: C BALANIS, P TIRKAS
Tech. Officer: LARC/K J MOELLER
CASE Category: 45 – ELECTRICAL ENGR

NAG 1 1886 ARIZONA STATE UNIVERSITY **1340**
STABILITY OF HYPERSONIC BOUNDARY-LAYER FLOWS
01/30/1997 - 12/31/1997 FY97: $25,000 Total: $25,000
Prin. Invest.: H L REED
Tech. Officer: LARC/R A THOMPSON
CASE Category: 41 - AERONAUTICAL ENGNR

NAG 1 1925 ARIZONA STATE UNIVERSITY **1341**
SWEPT-WING RECEPTIVITY STUDIES USING DISTRIBUTED ROUGHNESS
05/13/1997 - 10/31/1997 FY97: $49,710 Total: $49,710
Prin. Invest.: W S SARIC
Tech. Officer: LARC/R D JOSLIN
CASE Category: 41 - AERONAUTICAL ENGNR

NAG 2 908 ARIZONA STATE UNIVERSITY **1342**
DEVELOPMENT OF A COMPOSITE TAILORING PROCEDURE FOR AIRPLANE WING
06/15/1994 - 09/30/1997 FY97: $29,845 Total: $175,017
Prin. Invest.: A CHATTOPADHYAY
Tech. Officer: ARC/H MIURA, ARC/A SHAHN
CASE Category: 41 - AERONAUTICAL ENGNR

NAG 2 990 ARIZONA STATE UNIVERSITY **1343**
MULTIRESOLUTION & EXPLICIT METHODS FOR VECTOR FIEL D ANALYSIS & VISUALIZATION
07/25/1995 - 07/31/1998 FY97: $97,187 Total: $278,637
Prin. Invest.: G M NIELSON
Tech. Officer: ARC/A VAZIRI, ARC/T A LASINSKI
CASE Category: 22 - COMPUTER SCIENCE

NAG 3 2081 ARIZONA STATE UNIVERSITY **1344**
DECOUPLING THE ROLE OF INERTIA & GRAVITY ON PARTIC LE DISPERSION LSN000850-(NRA-94-OLMSA)
09/26/1997 - 09/14/2000 FY97: $8,311 Total: $8,311
Prin. Invest.: K D SQUIRES
Tech. Officer: LERC/A CHAIT
CASE Category: 41 - AERONAUTICAL ENGNR

NAG 5 1802 ARIZONA STATE UNIVERSITY **1345**
ANALYSIS OF IUE SPECTRA OF NOVAE IN OUTBURST
09/18/1991 - 09/30/1996 FY97: $0 Total: $87,913
Prin. Invest.: S G STARRFIELD
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 2553 ARIZONA STATE UNIVERSITY **1346**
COMPLETION OF A STUDY OF GLOBAL PROPERTIES OF LMC STELLAR X-RAY SOURCES
03/14/1994 - 03/31/1997 FY97: $0 Total: $51,000
Prin. Invest.: A P CONWAY
Tech. Officer: GSFC/R PETRE
CASE Category: 11 - ASTRONOMY

NAG 5 2832 ARIZONA STATE UNIVERSITY **1347**
SEARCHING FOR DISK MATTER: ROSAT OBSERVATIONS OF POOR GROUPS OF GALAXIES
12/14/1994 - 12/14/1995 FY97: -$944 Total: $14,609
Prin. Invest.: D BURSTEIN
Tech. Officer: GSFC/R WHITE
CASE Category: 11 - ASTRONOMY

NAG 5 3004 ARIZONA STATE UNIVERSITY **1348**
STUDIES OF MAGELLANIC CLOUD X-RAY SOURCES USING ROSAT AND HEOA-2 ARCHIVAL DATA
07/14/1995 - 09/30/1997 FY97: $46,500 Total: $66,500
Prin. Invest.: A P COWLEY
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3067 ARIZONA STATE UNIVERSITY **1349**
MODEL ATMOSPHERES FOR NOVAE IN OUTBURST
09/05/1995 - 09/14/1996 FY97: $0 Total: $38,900
Prin. Invest.: P H HAUSCHILDT
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3222 ARIZONA STATE UNIVERSITY **1350**
MULTIWAVELENGTH MODELING OF NOVA ATMOSPHERES
05/08/1996 - 04/30/1997 FY97: -$50,934 Total: $22,266
Prin. Invest.: P H HAUSCHILDT
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3286 ARIZONA STATE UNIVERSITY **1351**
INVESTIGATING QPOS IN LMC X-1
07/03/1996 - 01/31/1998 FY97: $0 Total: $26,800
Prin. Invest.: P SCHMIDTKE
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 3628 ARIZONA STATE UNIVERSITY **1352**
THERMAL-INFRARED LABORATORY STUDIES
02/25/1997 - 12/31/1997 FY97: $93,000 Total: $93,000
Prin. Invest.: D R CHRISTENSEN
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 3783 ARIZONA STATE UNIVERSITY **1353**
DETERMINING THE COMPOSITION OF MARTIAN AND VENUSIA
02/21/1997 - 12/31/1997 FY97: $73,000 Total: $73,000
Prin. Invest.: D FINK
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 3892 ARIZONA STATE UNIVERSITY **1354**
THEORETICAL STUDIES OF BINARY SYSTEMS CONTAINING C
02/11/1997 - 01/14/1998 FY97: $20,263 Total: $20,263
Prin. Invest.: M POLITANO
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3894 ARIZONA STATE UNIVERSITY **1355**
IMPROVED DATA UTILIZATION FROM PIXELATED CDZNTE GAMMA RAY ASTRONOMY
02/11/1997 - 02/14/1998 FY97: $0 Total: $0
Prin. Invest.: H BARBER
Tech. Officer: GSFC/J TUELLER
CASE Category: 11 - ASTRONOMY

NAG 5 3908 ARIZONA STATE UNIVERSITY **1356**
STUDIES IN PLANETARY VOLCANOLOGY
02/12/1997 – 02/28/1998 FY97: $160,000 Total: $160,000
Prin. Invest.: D GREELEY
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3909 ARIZONA STATE UNIVERSITY **1357**
STUDIES OF MARTIAN AEOLIAN GEOLOGY
02/12/1997 – 02/28/1998 FY97: $165,900 Total: $165,900
Prin. Invest.: R GREELEY
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4131 ARIZONA STATE UNIVERSITY **1358**
ORGANICS IN METEORITES
03/15/1997 – 03/14/1998 FY97: $115,000 Total: $115,000
Prin. Invest.: D CRONIN
Tech. Officer: GSFC/M MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 4156 ARIZONA STATE UNIVERSITY **1359**
WINDBLOWN FEATURES ON VENUS AND GEOLOGIC MAPPING
04/12/1997 – 04/30/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: D GREELEY
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4232 ARIZONA STATE UNIVERSITY **1360**
GEOLOGY OF ANCIENT VOLCANOS, NORTHERN PLAINS AND P ON MARS
03/24/1997 – 04/30/1998 FY97: $70,000 Total: $70,000
Prin. Invest.: D GREELEY
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4280 ARIZONA STATE UNIVERSITY **1361**
CHEMICAL CONSTRATS ON THE EARLY SOLAR NEBULA: MOLE ABUNDANCES IN CLOUDS, DISKS, AND COMETS
04/30/1997 – 06/30/1998 FY97: $45,000 Total: $45,000
Prin. Invest.: D WYCKOFF
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4296 ARIZONA STATE UNIVERSITY **1362**
MARS SURVEYOR LANDING SITE PROPOSAL: SCHIAPARELLI
04/04/1997 – 03/31/1999 FY97: $31,400 Total: $31,400
Prin. Invest.: M S EDGETT
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4308 ARIZONA STATE UNIVERSITY **1363**
FINE-GRAINED MINERALS IN PRIMITIVE CHONDRITES: NEB PROCESSING
04/16/1997 – 02/14/1998 FY97: $95,016 Total: $95,016
Prin. Invest.: P R BUSECK
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4439 ARIZONA STATE UNIVERSITY **1364**
MARS SURVEYOR PROGRAM LANDING SITE STUDY OF THE EL MARS
04/25/1997 – 03/31/1998 FY97: $13,400 Total: $13,400
Prin. Invest.: D L GRAF
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4532 ARIZONA STATE UNIVERSITY **1365**
LITHOSPHERIC DYNAMICS OF VENUS AND MARS
05/08/1997 – 05/14/1998 FY97: $39,400 Total: $39,400
Prin. Invest.: D G GRIMM
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4533 ARIZONA STATE UNIVERSITY **1366**
VENUS AEROBOT SURFACE IMAGING SYSTEM (VASSIS)
05/06/1997 – 05/31/1998 FY97: $16,000 Total: $16,000
Prin. Invest.: D GREELEY
Tech. Officer: GSFC/J BOYCE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 4860 ARIZONA STATE UNIVERSITY **1367**
FOSSIL RECORD OF PRECAMBRIAN LIFE ON LAND
06/19/1997 – 05/31/1998 FY97: $51,280 Total: $51,280
Prin. Invest.: P KNAUTH
Tech. Officer: GSFC/M A MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 4892 ARIZONA STATE UNIVERSITY **1368**
ORGANIC SYNTHESIS IN ARTIFICIAL SMOKERS
06/24/1997 – 04/30/1998 FY97: $80,400 Total: $80,400
Prin. Invest.: D HOLLOWAY
Tech. Officer: GSFC/M A MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 6108 ARIZONA STATE UNIVERSITY **1369**
MINERALOGICAL OXIDE AND SULFIDE MINERAL INDICATORS TIVITY
07/24/1997 – 07/31/1998 FY97: $60,000 Total: $60,000
Prin. Invest.: P R BUSECK
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 8 1353 ARIZONA STATE UNIVERSITY **1370**
R/S "CRYSTALLIZATION MECHANISMS OF MEMBRANE PROTEINS UNDER THE DIRECTION OF DR. JAMES ALLEN"
05/19/1997 – 11/30/1997 FY97: $90,000 Total: $90,000
Prin. Invest.: J ALLEN
Tech. Officer: MSFC/C R TALLEY, MSFC/M L PUSEY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 9 815 ARIZONA STATE UNIVERSITY **1371**
DEVELOPE MICROFLOW BIOCHEMICAL SENSORS
08/07/1995 – 09/17/1998 FY97: $140,000 Total: $424,000
Prin. Invest.: B TOWE
Tech. Officer: JSC/N PELLIS
CASE Category: 49 – ENGINEERING, OTHER

NAGW 529 ARIZONA STATE UNIVERSITY **1372**
FIELD MEASUREMENTS OF THE 1983 EAST RIFT BASALT FLOWS AT KITAUEA VOLCANO
03/01/1984 – 12/31/1996 FY97: $0 Total: $511,504
Prin. Invest.: J FINK
Tech. Officer: HQ/J R UNDERWOOD, HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 943 ARIZONA STATE UNIVERSITY **1373**
THERMAL INFRARED SPECTRAL MEASUREMENTS OF GEOLOGIC MATERIAL
07/15/1986 – 12/31/1996 FY97: $0 Total: $613,702
Prin. Invest.: P R CHRISTENSEN
Tech. Officer: HQ/J UNDERWOOD, HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1306 ARIZONA STATE UNIVERSITY **1374**
MAPPING PLANETARY AND SATELLITE SURFACES
08/21/1988 – 06/30/1996 FY97: $0 Total: $538,503
Prin. Invest.: R GREELEY
Tech. Officer: HQ/J M BOYCE, HQ/D H SCOTT
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1395 ARIZONA STATE UNIVERSITY **1375**
EVOLUTION OF PHOTOSYNTHESIS
08/08/1988 – 06/30/1997 FY97: $0 Total: $562,445
Prin. Invest.: R E BLANKENSHIP
Tech. Officer: HQ/J D RUMMEL
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 1774 ARIZONA STATE UNIVERSITY **1376**
GEOLOGIC MAPPING OF HADRIACA PATERA & TYRRHENA PATERA
06/21/1989 – 09/30/1997 FY97: $0 Total: $123,554
Prin. Invest.: R GREELEY
Tech. Officer: HQ/J R UNDERWOOD
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1899 ARIZONA STATE UNIVERSITY **1377**
ORGANIC CHEMISTRY OF CARBONACEOUS METEORITES
10/31/1989 – 03/31/1997 FY97: $0 Total: $695,000
Prin. Invest.: J R CRONIN
Tech. Officer: HQ/J D RUMMEL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2064 ARIZONA STATE UNIVERSITY **1378**
NAGW-2064/ARIZONA STATE UNIV/STUDIES OF MARTIAN AEOLIAN GEOLOGY
05/04/1990 – 09/30/1997 FY97: $0 Total: $623,474
Prin. Invest.: R GREELEY
Tech. Officer: HQ/T A MAXWELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2102 ARIZONA STATE UNIVERSITY **1379**
GEOLOGICAL STUDIES IN PLANETOLOGY
05/04/1990 – 09/30/1997 FY97: $0 Total: $1,459,699
Prin. Invest.: R GREELEY
Tech. Officer: HQ/T A MAXWELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2241 ARIZONA STATE UNIVERSITY **1380**
NAGW-2241/ARIZONA STATE UNIV/COMETS AS PROBES OF A STAR-FORMING ENVIRONMENT
05/23/1991 – 02/28/1998 FY97: $0 Total: $190,200
Prin. Invest.: S WYCOFF, NONE
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 2276 ARIZONA STATE UNIVERSITY **1381**
OXYGEN ISOTOPIC HETEROGENEITY IN OLIVINE AND PYROX ENE FROM ORDINARY, CARBONACEOUS & ENSTATITE CHON.
12/06/1990 – 10/31/1996 FY97: $0 Total: $81,690
Prin. Invest.: R L HERVIG
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 2622 ARIZONA STATE UNIVERSITY **1382**
NAGW-2622/ARIZONA STATE UNIV/GEOLOGY OF ANCIENT VO LCANOES, NORTHERN PLAINS, & POTENTIAL LANDING SIT
08/21/1991 – 09/30/1997 FY97: $0 Total: $345,000
Prin. Invest.: R GREELEY
Tech. Officer: HQ/W L QUAIDE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2628 ARIZONA STATE UNIVERSITY **1383**
NAGW-2628/ARIZONA STATE UNIV/MODEL ATMOSPHERE ANAL YSES OF ULTRAVIOLET SPECTRA OF NOVAE IN OUTBURST
08/09/1991 – 04/30/1996 FY97: $0 Total: $421,293
Prin. Invest.: S G STARRFIELD*Prin. Invest.:* NONE
Tech. Officer: HQ/G S KUTTER, HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 2949 ARIZONA STATE UNIVERSITY **1384**
MARS ANALOG SITE SELECTION STUDY
03/04/1992 – 10/31/1996 FY97: $0 Total: $200,261
Prin. Invest.: R GREELEY
Tech. Officer: HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2989 ARIZONA STATE UNIVERSITY **1385**
SUBMILLIMETER DIRECT ABSORPTION/BEAM SPECTROSCOPY
03/24/1992 – 06/30/1997 FY97: $0 Total: $336,374
Prin. Invest.: L M ZIURYS, T C STEIMLE
Tech. Officer: HQ/L J CAROFF
CASE Category: 11 – ASTRONOMY

NAGW 3386 ARIZONA STATE UNIVERSITY **1386**
MATRIX MINERALOGY OF CARBONACEOUS CHRONDRITE METEO RITES
02/24/1993 – 09/30/1997 FY97: $0 Total: $483,719
Prin. Invest.: P R BUSECK
Tech. Officer: HQ/J NUTH
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 4042 ARIZONA STATE UNIVERSITY **1387**
"PLANETARY GEOSCIENCE EDUCATION ACTIVITY"
06/16/1994 – 09/30/1997 FY97: $0 Total: $56,061
Prin. Invest.: R GREELEY
Tech. Officer: HQ/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 4105 ARIZONA STATE UNIVERSITY **1388**
COSMOCHEMISTRY OF COMETS AND STAR FORMING REGIONS
09/01/1994 – 10/31/1997 FY97: $0 Total: $33,400
Prin. Invest.: S WYCKOFF
Tech. Officer: HQ/P ROGERS
CASE Category: 11 – ASTRONOMY

NAGW 4694 ARIZONA STATE UNIVERSITY **1389**
DEVELOPMENT OF A SMALL INFRARED SPECTROMETER FOR D ISCOVERY AND SURVEYOR MISSIONS
08/11/1995 – 03/31/1997 FY97: $0 Total: $376,929
Prin. Invest.: P CHRISTENSEN
Tech. Officer: HQ/T KOSTLUK
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4890 ARIZONA STATE UNIVERSITY **1390**
THE IONOSPHERIC PLASMA RESEARCH EXPERIMENT: ASUSAT 1 & ADVANCED SPACECRAFT TECHNOLOGY APPLICATIONS
12/14/1995 – 12/31/1996 FY97: $0 Total: $34,000
Prin. Invest.: D L REED
Tech. Officer: HQ/L KEFFER, HQ/L KEFFER
CASE Category: 13 – PHYSICS

NAGW 5094 ARIZONA STATE UNIVERSITY **1391**
VENUS AEROBOT SURFACE SCIENCE
06/14/1996 – 05/31/1997 FY97: $0 Total: $16,000
Prin. Invest.: R GREELEY
Tech. Officer: HQ/T KOSTIUK, HQ/H C BRINTON
CASE Category: 11 – ASTRONOMY

NAS 5 31371 ARIZONA STATE UNIVERSITY **1392**
EOS INVESTIGATION "ADVANCED SPACEBORNE THERMAL EMISSION AND REFLECTION"
12/23/1991 – 12/22/2001 FY97: $242,000 Total: $833,250
Prin. Invest.: P CHRISTENSEN
Tech. Officer: GSFC/H BLODGET
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 1 194 ARIZONA STATE UNIVERSITY **1393**
EFFECTS OF SUCTION ON SWEPT-WING TRANSITION
06/17/1994 – 12/15/1997 FY97: $40,094 Total: $269,938
Prin. Invest.: W S SARIC, M REIBERT, H REED
Tech. Officer: LARC/J R DAGENHART, LARC/M J WALSH
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 346 ARIZONA STATE UNIVERSITY **1394**
LABORATORY SIMULATIONS OF MARTIAN AND VENUSIAN AEOPROCESSES
03/01/1985 – 05/31/1998 FY97: $125,000 Total: $1,496,686
Prin. Invest.: R GREELEY, J MARSHALL
Tech. Officer: ARC/B F SMITH, HQ/J P POLLAEF
CASE Category: 32 – GEOLOGICAL SCIENCE

NCC 2 5064 ARIZONA STATE UNIVERSITY **1395**
DEVELOPMENT OF MULTIOBJECTIVE OPTIMIZATION TECHNIQ UES FOR SONIC BOOM MINIMIZATION
06/03/1994 – 05/15/1996 FY97: –$448 Total: $39,552
Prin. Invest.: A CHATTOPADHYAY, J R NARAYAN
Tech. Officer: ARC/E TU
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5127 ARIZONA STATE UNIVERSITY **1396**
DEVELOPMENT OF CONTINUOUS AND DISCRETE APPROACHES FOR AERODYNAMIC SENSITIVITY ANALYSIS
05/02/1995 – 04/30/1998 FY97: $0 Total: $80,000
Prin. Invest.: A CHATTOPADHYAY, J R NARAYAN
Tech. Officer: ARC/E TU
CASE Category: 46 – MECHANICAL ENGR

NCC 2 5150 ARIZONA STATE UNIVERSITY **1397**
ENHANCED MULTIOBJECTIVE OPTIMIZATION PROCEDURE FOR CFD-BASED DESIGN
08/09/1995 – 07/14/1997 FY97: $0 Total: $40,000
Prin. Invest.: A CHATTOPADHYAY, J R NARAYAN
Tech. Officer: ARC/E TU
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 30347 ARIZONA STATE UNIVERSITY **1398**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/31/1995 – 08/31/1998 FY97: $0 Total: $44,000
Prin. Invest.: R I DOM
Tech. Officer: HQ/G ASRAR
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 2 52204 ARIZONA STATE UNIVERSITY **1399**
A NOVEL METHOD FOR REDUCING ROTOR BLADE-VORTEX INT ERACTION NOISE
09/14/1995 – 07/31/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: V L WELLS, A T GLINKA
Tech. Officer: ARC/F H SCHITZ
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 22 ARIZONA STATE UNIVERSITY **1400**
ADAPTIVE FILTERING FOR HIGHER PIXEL DENSITY IN VOL UME HOLOGRAPHIC DATA STORAGE
07/15/1996 – 06/30/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: D COCHRAN
Tech. Officer: GSFC/G A SOFFEN, GSFC/D HOLLIS
CASE Category: 22 – COMPUTER SCIENCE

NGT 5 30007 ARIZONA STATE UNIVERSITY **1401**
VARIABILITY OF VOLATILE FLUX FROM VOLCANOES
10/11/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: S WILLIAMS
Tech. Officer: GSFC/G ASRAR
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 5 30092 ARIZONA STATE UNIVERSITY **1402**
GLACIAL CHRONOLOGY OF IZTACCIHUATL VOLCANO, CENTRA OF ENVIRONMENTAL CHANGE IN THE BORDER OF THE TROP
09/10/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: R I DORN
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50077 ARIZONA STATE UNIVERSITY **1403**
INVESTIGATION OF AEOLIAN FEATURES USING RADAR DATA TS, & FIELD WORK
08/26/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: R GREELEY
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 9 21 ARIZONA STATE UNIVERSITY **1404**
VESTIBULAT INFO IN EYE HEAD HAND COORDINATION
05/13/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: R D SEIDLER
Tech. Officer: JSC/D G SICKCOREZ
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 2 6012 NAVAJO COMMUNITY COLLEGE **1405**
THE AMERICAN INDIAN NETWORK INFORMATION CENTER
07/24/1997 – 07/31/1998 FY97: $199,995 Total: $199,995
Prin. Invest.: A SAM
Tech. Officer: ARC/L K ALDERETE, ARC/G S LEE
CASE Category: 22 – COMPUTER SCIENCE

NAGW 4236 NAVAJO COMMUNITY COLLEGE **1406**
TELECOMMUNICATIONS INFRASTRUCTURE DEVELOPMENT PROJ ECT
02/22/1995 – 12/31/1996 FY97: $0 Total: $153,396
Prin. Invest.: A KUSLIKIS
Tech. Officer: HQ/F SULZMAN, HQ/V THORNE
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 2 964 NAVAJO COMMUNITY COLLEGE **1407**
AFOSR NASA TELECOMMUNICATIONS INFRASTRUCTURE DEVELOPMENT PROJECT
08/20/1996 – 02/28/1998 FY97: $270,000 Total: $635,000
Prin. Invest.: D BASHAM
Tech. Officer: ARC/R A GRYMES, ARC/K A SOUZA
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 2 6003 NORTHERN ARIZONA UNIVERSITY **1408**
PATHWAYS LEADING TO SUCCESS (PALS)
08/29/1994 – 08/31/1998 FY97: $2,029 Total: $90,877
Prin. Invest.: G M BOYNE
Tech. Officer: ARC/A R GROSS
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 2159 NORTHERN ARIZONA UNIVERSITY **1409**
TO ESTABLISH THE MOON AS A RADIANCE STANDARD
12/14/1992 – 06/30/1997 FY97: $29,218 Total: $359,564
Prin. Invest.: R L WILDEY
Tech. Officer: GSFC/J BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4357 NORTHERN ARIZONA UNIVERSITY **1410**
AN INFRARED SPECTROSCOPIC SURVEY OF ICY GRAINS IN CIRCUMSTELLAR ENVIRONMENTS OF YOUNG STARS
05/06/1997 – 02/28/1998 FY97: $17,000 Total: $17,000
Prin. Invest.: D TEGLER
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4385 NORTHERN ARIZONA UNIVERSITY **1411**
RESEARCH IN ORIGINS OF SOLAR SYSTEMS AT NAU
04/17/1997 – 04/14/1998 FY97: $70,080 Total: $70,080
Prin. Invest.: D L LUTZ
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4852 NORTHERN ARIZONA UNIVERSITY **1412**
INFRARED SPECTROSCOPY OF PLANETARY SATELLITES
07/14/1997 – 04/30/1998 FY97: $35,040 Total: $35,040
Prin. Invest.: D A GRIFFITH
Tech. Officer: GSFC/W HUEBNER
CASE Category: 11 – ASTRONOMY

NAG 5 4942 NORTHERN ARIZONA UNIVERSITY **1413**
GIS IN THE CENTRAL VALLES MARIINERIS, MARS
06/23/1997 – 05/31/1998 FY97: $21,920 Total: $21,920
Prin. Invest.: D K LUCCHITTA
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4995 NORTHERN ARIZONA UNIVERSITY **1414**
MARS FLUIDIZED EJECTA CRATER STUDIES
07/23/1997 – 07/14/1998 FY97: $20,900 Total: $20,900
Prin. Invest.: D BARNES
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAGW 2811 NORTHERN ARIZONA UNIVERSITY **1415**
SOLAR SYSTEM SPECTROSCOPY
01/03/1992 – 04/30/1997 FY97: $0 Total: $316,499
Prin. Invest.: B L LUTZ
Tech. Officer: HQ/W L QUAIDE
CASE Category: 11 – ASTRONOMY

NAGW 3847 NORTHERN ARIZONA UNIVERSITY **1416**
NAGW–3847/B NORTHERN ARIZ. UNIV. "ORIGIN AND EVOLU TION OF TITAN'S ATMOSPHERE"
01/12/1994 – 06/30/1997 FY97: $0 Total: $210,240
Prin. Invest.: C GRIFFITH
Tech. Officer: HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NAGW 3906 NORTHERN ARIZONA UNIVERSITY **1417**
NAGW–3906/B NORTHERN ARIZONA UNIV. " NIZHONI ACADE MY" 12–MONTH AWARD
04/06/1994 – 05/31/1997 FY97: $0 Total: $171,210
Prin. Invest.: A TANAKEYOWMA
Tech. Officer: HQ/B L WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4232 NORTHERN ARIZONA UNIVERSITY **1418**
RESEARCH IN ORIGINS OF SOLAR SYSTEMS AT NAU
12/22/1994 – 09/30/1997 FY97: $0 Total: $140,160
Prin. Invest.: B LUTZ
Tech. Officer: HQ/J RAHE
CASE Category: 11 – ASTRONOMY

NAGW 4545 NORTHERN ARIZONA UNIVERSITY **1419**
OUTFLOW CHANNELS OF MARS, THE ICE PERSPECTIVE
06/02/1995 – 05/31/1996 FY97: $0 Total: $40,000
Prin. Invest.: B LUCCHITTA
Tech. Officer: HQ/H BRINTON
CASE Category: 11 – ASTRONOMY

NAGW 4643 NORTHERN ARIZONA UNIVERSITY **1420**
RELATIVE ABUNDANCE OF ICES IN DISKS OF T TAURI STA RS
07/18/1995 – 06/30/1997 FY97: $0 Total: $15,000
Prin. Invest.: S TEGLER
Tech. Officer: HQ/P G ROGERS
CASE Category: 11 – ASTRONOMY

NAGW 5022 NORTHERN ARIZONA UNIVERSITY **1421**
AN INFRARED SPECTROSCOPIC SURVEY
04/01/1996 – 06/30/1997 FY97: $0 Total: $17,000
Prin. Invest.: D TEGLER
Tech. Officer: HQ/P ROGER
CASE Category: 11 – ASTRONOMY

NAGW 5086 NORTHERN ARIZONA UNIVERSITY **1422**
GIS IN THE CENTRAL VALLES MARINERIS, MARS
05/31/1996 – 05/31/1997 FY97: $0 Total: $20,600
Prin. Invest.: B K LUCCHITTA
Tech. Officer: HQ/M MEYER, HQ/P ROGERS
CASE Category: 11 – ASTRONOMY

NAS 5 96084 NORTHERN ARIZONA UNIVERSITY **1423**
RADIOMETRIC CHARACTERIZATION OF THE MOON
07/12/1996 – 07/11/1998 FY97: $138,250 Total: $284,152
Prin. Invest.: B WILDEY
Tech. Officer: GSFC/J B BUTLER
CASE Category: 11 – ASTRONOMY

NGT 10015 NORTHERN ARIZONA UNIVERSITY **1424**
NGT-10015/NORTHERN ARIZONA UNIV/EDUCAT TRAINING EX PERI IN SOLAR SYSTEM ASTRONOMY
12/01/1993 – 11/30/1996 FY97: $0 Total: $100,000
Prin. Invest.: B L LUTZ
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 11 – ASTRONOMY

NGT 90028 NORTHERN ARIZONA UNIVERSITY **1425**
NATIVE AMERICAN SCIENCE AND ENGINEERING ADVANCEMENT PROGRAM
11/14/1989 – 09/30/1997 FY97: $0 Total: $788,387
Prin. Invest.: C N HOLLAND, J GRAY
Tech. Officer: HQ/Y B FREEMAN
CASE Category: 49 – ENGINEERING, OTHER

NAG 1 1422 UNIVERSITY OF ARIZONA **1426**
NUMERICAL SIMULATION OF RECEPTIVITY AND TRANSITION IN A BOUNDARY LAYER ON A FLAT PLATE WITH SUCTION
04/29/1992 – 09/30/1996 FY97: $0 Total: $106,500
Prin. Invest.: H F FASEL
Tech. Officer: LARC/C L STREETT, LARC/A KUMAR
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1611 UNIVERSITY OF ARIZONA **1427**
AN EXPERIMENTAL STUDY OF A CAPTURED LARGE VORTEX WHICH ALSO CONTAINS AXIAL FLOWS
04/11/1994 – 06/05/1996 FY97: $0 Total: $93,712
Prin. Invest.: I J WYGNANSKI
Tech. Officer: LARC/K B PASCHAL
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1652 UNIVERSITY OF ARIZONA **1428**
DEVELOPMENT OF A METHODOLOGY FOR PREDICTING THE RE SIDUAL STRENGTH OF AIRCRAFT STRUCTURES
12/07/1994 – 09/30/1998 FY97: $157,233 Total: $235,934
Prin. Invest.: E MADENCI
Tech. Officer: LARC/J H STARNES, LARC/V O BRITT
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1825 UNIVERSITY OF ARIZONA **1429**
IN-SITU RESOURCE UTILIZATION FOR ECONOMICAL SPACE MISSIONS – GRANT TRANSFER FROM NASA HQ
05/20/1996 – 11/30/1997 FY97: $0 Total: $67,610
Prin. Invest.: K RAMONHALLI, J LEWIS
Tech. Officer: LARC/J B HALL, JR.
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 906 UNIVERSITY OF ARIZONA **1430**
RESEARCH CONCERNING THE NET FLUX OF RADIATION IN T HE ATMOSPHERE OF JUPITER
06/15/1994 – 03/31/1997 FY97: $51,810 Total: $151,795
Prin. Invest.: M G TOMASKO
Tech. Officer: ARC/L E LASHER, ARC/R E YOUNG
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 949 UNIVERSITY OF ARIZONA **1431**
ENSEMBLE NEURAL CODING OF PLACE & DIRECTION IN ZER O–G
12/20/1994 – 11/30/1997 FY97: $397,562 Total: $763,270
Prin. Invest.: B L MCNAUGHTON
Tech. Officer: ARC/W E HINDS, ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 957 UNIVERSITY OF ARIZONA **1432**
MID–IR SPECTROSCOPY OF MERCURY'S SURFACE COMPOSITI ON
01/25/1995 – 03/31/1996 FY97: –$78 Total: $39,922
Prin. Invest.: A L SPRAGUE
Tech. Officer: ARC/C D LAUGHLIN, ARC/C M GILLESPIE, JR
CASE Category: 11 – ASTRONOMY

NAG 2 998 UNIVERSITY OF ARIZONA **1433**
SOFIA SCIENCE WORKING GROUP
08/25/1995 – 05/31/1997 FY97: $0 Total: $12,347
Prin. Invest.: H P LARSON
Tech. Officer: ARC/E F ERICKSON
CASE Category: 11 – ASTRONOMY

NAG 2 1046 UNIVERSITY OF ARIZONA **1434**
THE USE OF COMPOSITE TAILORING FOR OPTIMAL TILE–RO TOR BLADE DESIGN
05/17/1996 – 03/31/1998 FY97: $0 Total: $28,007
Prin. Invest.: P CHATTOPADHYAY
Tech. Officer: ARC/S KOTTAPALLI
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 1057 UNIVERSITY OF ARIZONA **1435**
A2 THZ HETERODYNE ARRAY RECEIVER FOR SOFIA
07/01/1996 – 01/31/1998 FY97: $0 Total: $89,914
Prin. Invest.: C K WALKER
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 1063 UNIVERSITY OF ARIZONA **1436**
THE PLANET MERCURY: SURFACE SPECTROSCOPY FROM THE KAO ANALYSIS & MODELING TO IDENTIFY COMPSOTION
07/19/1996 – 06/30/1997 FY97: $0 Total: $32,000
Prin. Invest.: A L SPRAGUE
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 1090 UNIVERSITY OF ARIZONA **1437**
A FAR INFRARED CAMERA FOR SOFIA
10/25/1996 – 02/28/1998 FY97: $116,409 Total: $116,409
Prin. Invest.: E T YOUNG, G H RIEKE
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 3 1386 UNIVERSITY OF ARIZONA **1438**
MARANGONI & DOUBLE–DIFFUSIVE CONVECTION IN A FLUID LAYER UNDER MICROGRAVITY
11/30/1992 – 08/31/1996 FY97: $0 Total: $300,000
Prin. Invest.: C F CHEN
Tech. Officer: LERC/J A SALZMAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1446 UNIVERSITY OF ARIZONA **1439**
COMPUTER SIM;ULATIONS OF DENDRITIC ALLOYS SOLIDIFI ED IN TERRESTRIAL & LOW-GRAVITY ENVIRONMENTS
02/08/1993 - 07/31/1996 FY97: -$687 Total: $240,567
Prin. Invest.: D R POIRIER
Tech. Officer: LERC/A CHAIT, LERC/E NELSON
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 3 1499 UNIVERSITY OF ARIZONA **1440**
ADVANCED CONCENTRATOR ARRAY DEVELOPMENT
06/15/1993 - 11/15/1997 FY97: $0 Total: $200,000
Prin. Invest.: P A FRANKEN, V M ANDREEV
Tech. Officer: LERC/D J FLOOD, LERC/H B CURTIS
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 3 1769 UNIVERSITY OF ARIZONA **1441**
A THEORETICAL STUDY OF LEADING-EDGE DEVICES FOR AC TIVE AND PASSIVE CONTROL OF WAKE-AIRFOIL INTERACT
06/01/1995 - 05/31/1996 FY97: $0 Total: $25,000
Prin. Invest.: E J KERSCHEN
Tech. Officer: LERC/L J HEIDELBERG
CASE Category: 41 - AERONAUTICAL ENGNR

NAG 3 1869 UNIVERSITY OF ARIZONA **1442**
AN EXPERIMENTAL STUDY OF RICHTMYER
05/09/1996 - 05/08/2000 FY97: $57,000 Total: $171,000
Prin. Invest.: J JACOBS
Tech. Officer: LERC/A T CHAI
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 637 UNIVERSITY OF ARIZONA **1443**
EUV SPECTRAL IMAGER
07/11/1986 - 02/28/1998 FY97: $150,000 Total: $1,111,282
Prin. Invest.: A L BROADFOOT
Tech. Officer: GSFC/L JEARLY, GSFC/R H PLESS
CASE Category: 13 - PHYSICS

NAG 5 1496 UNIVERSITY OF ARIZONA **1444**
INVESTIGATION OF BACKSCATTERED ALBEDOS AS MEASURED BY THE TOMS INSTRUMENT
03/13/1991 - 05/31/1997 FY97: $157,508 Total: $716,023
Prin. Invest.: B M HERMAN
Tech. Officer: GSFC/R D MCPETERS, GSFC/R S STOLARSKI
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 2080 UNIVERSITY OF ARIZONA **1445**
PSPC OBSERVATIONS OF HIGH REDSHIFT QSOS
08/25/1992 - 08/31/1996 FY97: $0 Total: $50,000
Prin. Invest.: J BECHTOLD
Tech. Officer: GSFC/R PETRE
CASE Category: 11 - ASTRONOMY

NAG 5 2251 UNIVERSITY OF ARIZONA **1446**
THE PHYSICAL FOUNDATIONS OF PARTICLE ACCELERATION BY COLLISIONLESS SHOCKS IN SPACE
04/27/1993 - 04/30/1998 FY97: $90,462 Total: $387,425
Prin. Invest.: J R JOKIPII
Tech. Officer: GSFC/T J BIRMINGHAM, GSFC/J D BOHLIN
CASE Category: 13 - PHYSICS

NAG 5 2269 UNIVERSITY OF ARIZONA **1447**
TEMPERATURE AND COMPOSITION OF A UNIQUE HOT DO WHI TE DWARF & TEMP. & COMP. OF WHITE DWARFS
05/07/1993 - 08/31/1997 FY97: $0 Total: $172,853
Prin. Invest.: J B HOLBERG
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 2310 UNIVERSITY OF ARIZONA **1448**
INCORPORATION OF BOREAL FOREST ECOSYSTEM DESCRIPTI ON INTO CLIMATE MODELING FRAMEWORK
07/12/1993 - 07/14/1997 FY97: $61,100 Total: $160,000
Prin. Invest.: R E DICKINSON
Tech. Officer: GSFC/F G HALL, GSFC/P SELLERS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 2367 UNIVERSITY OF ARIZONA **1449**
STUDIES IN SUPPORT OF REMOTE SENSING GAMMA-RAY
09/22/1993 - 09/30/1997 FY97: $0 Total: $35,082
Prin. Invest.: W V BOYNTON
Tech. Officer: GSFC/J I TROMBKA
CASE Category: 11 - ASTRONOMY

NAG 5 2427 UNIVERSITY OF ARIZONA **1450**
GENERATION OF TERE-HERTZ RADIATION CO2 LASERS AND AN ASYMMETRIC MULTIPLE QUANTUM WELL
11/09/1993 - 03/31/1996 FY97: -$5 Total: $98,073
Prin. Invest.: A MARATHAY
Tech. Officer: GSFC/B D SEERY
CASE Category: 11 - ASTRONOMY

NAG 5 2428 UNIVERSITY OF ARIZONA **1451**
IRAS STUDIES OF QUASAR ABSORPTION LINE SYSTEMS
11/09/1993 - 08/14/1996 FY97: $0 Total: $30,000
Prin. Invest.: J BECHTOLD
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 2503 UNIVERSITY OF ARIZONA **1452**
MAINTAINING THE THIRD INTERPLANETARY NETWORK
02/16/1994 - 02/28/1997 FY97: $0 Total: $102,000
Prin. Invest.: J G LAROS
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 - ASTRONOMY

NAG 5 2630 UNIVERSITY OF ARIZONA **1453**
EUVE OBSERVATIONS OF MAGNETOSPHERIC PHENOMENA ASSO CIATED WITH THE COMETARY IMPACT ON JUPITER
06/28/1994 - 06/30/1997 FY97: $0 Total: $24,800
Prin. Invest.: F L HERBERT
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 2642 UNIVERSITY OF ARIZONA **1454**
INTEGRATED 12 MICRON EMISSION FROM DWARF SPHEROIDA L GALAXIES
07/05/1994 - 07/14/1998 FY97: $0 Total: $20,000
Prin. Invest.: E W OLSZEWSKI
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 2738 UNIVERSITY OF ARIZONA **1455**
HIGH SIGNAL-TO-NOISE ECHELLE IUE SPECTRA OF WHITE DWARFS & CONTINUED OPERATION FOR UVS ARCHIVE
09/30/1994 – 02/28/1998 FY97: $45,377 Total: $166,331
Prin. Invest.: J B HOLBERG
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2798 UNIVERSITY OF ARIZONA **1456**
PHYSICS OF SUPERNOVAE
11/21/1994 – 08/31/1998 FY97: $0 Total: $472,625
Prin. Invest.: W D ARNETT
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2817 UNIVERSITY OF ARIZONA **1457**
AN INTEGRATED STUDY OF M DWARFS AND BROWN DWARFS
12/08/1994 – 12/14/1997 FY97: $100,000 Total: $300,000
Prin. Invest.: A S BURROWS
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2901 UNIVERSITY OF ARIZONA **1458**
THE CORONAE OF LOW MASS DWARF STARS
03/02/1995 – 12/31/1997 FY97: $0 Total: $12,552
Prin. Invest.: J W LIEBERT
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 2955 UNIVERSITY OF ARIZONA **1459**
THE METAL POOR CORONA OF HD 89499
06/07/1995 – 09/30/1997 FY97: $0 Total: $6,515
Prin. Invest.: T FLEMING
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2962 UNIVERSITY OF ARIZONA **1460**
X-RAY SPECTRUM OF THE HIGH REDSHIFT QUASAR B1422+ 23
06/09/1995 – 06/14/1998 FY97: $28,791 Total: $54,941
Prin. Invest.: J BECHTOLD
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3018 UNIVERSITY OF ARIZONA **1461**
ORIGIN AND SIGNIFICANCE OF THE EOCENE ROCKY MOUNTAIN EROSION SURFACE
07/21/1995 – 07/31/1997 FY97: $60,650 Total: $185,951
Prin. Invest.: C G CHASE
Tech. Officer: GSFC/H V FREY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 3042 UNIVERSITY OF ARIZONA **1462**
HUBBLE SPACE TELESCOPE (HST) NEAR-INFRARED CAMERA AND MULTI-OBJECT SPECTROMETER(NICMOS) GUARANTEED..
08/03/1995 – 12/14/1997 FY97: $3,445,178 Total: $7,787,094
Prin. Invest.: D I THOMPSON
Tech. Officer: GSFC/E O RUITBERG
CASE Category: 11 – ASTRONOMY

NAG 5 3068 UNIVERSITY OF ARIZONA **1463**
STUDIES OF CLASSICAL NOVAE: CONFRONTATION OF THEORY WITH OBSERVATIONS
09/05/1995 – 09/14/1998 FY97: $29,416 Total: $85,749
Prin. Invest.: S G STARRFIELD
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3075 UNIVERSITY OF ARIZONA **1464**
HIGH-ENERGY SPECTRAL CHARACTERISTICS OF GALACTIC BLACK HOLE SYSTEMS
09/25/1995 – 09/30/1997 FY97: $0 Total: $130,000
Prin. Invest.: F MELLA
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3211 UNIVERSITY OF ARIZONA **1465**
THE INTRACLUSTER MEDIUM IN QUASAR HOST CLUSTERS
04/16/1996 – 10/31/1997 FY97: $0 Total: $900
Prin. Invest.: P HAU
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 3238 UNIVERSITY OF ARIZONA **1466**
X-RAY STUDIES OF THE NEARBY STARS
05/28/1996 – 05/31/1997 FY97: $109,900 Total: $214,600
Prin. Invest.: D FLEMMING
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3323 UNIVERSITY OF ARIZONA **1467**
DEVELOPMENT OF A METROLOGY CELL TO TEST ULTRA-LIGH T WEIGHT SHELL MIRRORS
07/29/1996 – 08/14/1997 FY97: $0 Total: $50,036
Prin. Invest.: R ANGEL
Tech. Officer: GSFC/B SEERY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 3359 UNIVERSITY OF ARIZONA **1468**
ISO DATA REDUCTION AND ANALYSIS
08/28/1996 – 03/31/1998 FY97: $0 Total: $253,898
Prin. Invest.: M RIEKE
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3400 UNIVERSITY OF ARIZONA **1469**
ANALYSIS, PUBLICATION AND ARCHIVING OF GAMMA-RAY B URST DATA FROM INTERPLANETARY NETWORK
09/12/1996 – 09/14/1997 FY97: $0 Total: $33,500
Prin. Invest.: J G LAROS
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3436 UNIVERSITY OF ARIZONA **1470**
ABSOLUTE RADIOMETRIC CALIBRATION AND ATMOSPHERIC C ORRECTION OF LANDSAT-7 THEMATIC MAPPER.
10/07/1996 – 10/31/1998 FY97: $156,590 Total: $156,590
Prin. Invest.: C J THOME
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3472 UNIVERSITY OF ARIZONA **1471**
THE ANALYSIS OF IUE NEWSIPS ECHELLE DATA ON WHITE
10/31/1996 – 10/31/1997 FY97: $47,500 Total: $47,500
Prin. Invest.: J B HOLBERG
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3492 UNIVERSITY OF ARIZONA **1472**
"REMOTE SENSING SOIL MOISTURE USING FOUR DIMENSION
12/02/1996 – 09/30/1997 FY97: $157,999 Total: $157,999
Prin. Invest.: J SHUTTLEWORTH
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3630 UNIVERSITY OF ARIZONA **1473**
PLANETARY GEOMORPHOLOGY
02/12/1997 – 09/30/1997 FY97: $35,000 Total: $35,000
Prin. Invest.: V R BAKER
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3631 UNIVERSITY OF ARIZONA **1474**
PLANET FORMATION AND EVOLUTION: COLLISIONAL AND
02/12/1997 – 09/30/1997 FY97: $86,200 Total: $86,200
Prin. Invest.: R GREENBERG
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3632 UNIVERSITY OF ARIZONA **1475**
COPERNICAN CRATERS AND THE PHANEROZOIC IMPACT FLUX
02/12/1997 – 01/31/1998 FY97: $40,900 Total: $40,900
Prin. Invest.: A MCEWEN
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3640 UNIVERSITY OF ARIZONA **1476**
UTILIZATION OF EOS DATA IN QUANTIFYING THE PROCESS HYDROLOGIC CYCLE IN ARID/SEMI-ARID REGIONS
02/12/1997 – 03/31/1998 FY97: $600,097 Total: $600,097
Prin. Invest.: S SOROOSHAIN
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3643 UNIVERSITY OF ARIZONA **1477**
PLANETARY AERONOMY AND RELATED STUDIES
02/25/1997 – 09/30/1997 FY97: $60,000 Total: $60,000
Prin. Invest.: D M HUNTEN
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3691 UNIVERSITY OF ARIZONA **1478**
MULTIWAVELENGTH STUDY OF HIGH REDSHIFT QUASARS
01/24/1997 – 01/31/1998 FY97: $22,800 Total: $22,800
Prin. Invest.: J BECHTOLD
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3777 UNIVERSITY OF ARIZONA **1479**
STUDIES OF MIDDLE ATMOSPHERIC RADIATIVE, PHOTOCHEM PROCESSES USING SATELLITE DATA
02/13/1997 – 02/28/1998 FY97: $75,798 Total: $75,798
Prin. Invest.: L L HOOD
Tech. Officer: GSFC/J A KAYE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3785 UNIVERSITY OF ARIZONA **1480**
SUB-MILLIMETER SPECTROSCOPY OF ASTROPHYSICALLY-IMP G MOLECULES
03/28/1997 – 02/28/1998 FY97: $84,000 Total: $84,000
Prin. Invest.: D M ZIURYS
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 3791 UNIVERSITY OF ARIZONA **1481**
A STUDY OF DUST JET EVOLUTION IN COMET HALLEY
03/07/1997 – 02/28/1998 FY97: $31,285 Total: $31,285
Prin. Invest.: M M LARSON
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3796 UNIVERSITY OF ARIZONA **1482**
RELATIVE ABUNDANCES OF 13C, 18O, 15N AND 2H ON TRI B MEASUREMENTS AND REFLECTANCE SPECTROSCOPY
03/11/1997 – 03/14/1998 FY97: $85,100 Total: $85,100
Prin. Invest.: D H BROWN
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3837 UNIVERSITY OF ARIZONA **1483**
IN-SITU RESOURCE UTILIZATION FOR ECONOMICAL SPACE
02/19/1997 – 02/14/1998 FY97: $36,527 Total: $36,527
Prin. Invest.: K RAMOHALLI
Tech. Officer: GSFC/R AVANT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 3854 UNIVERSITY OF ARIZONA **1484**
THE AGGREGATE REPRESENTATION OF TERRESTRIAL LAND C CLIMATE MODELS
12/20/1996 – 06/30/1997 FY97: $306,609 Total: $306,609
Prin. Invest.: W SHUTTLEWORTH
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3914 UNIVERSITY OF ARIZONA **1485**
SUPPORT FOR THE SPACE IMAGERY CENTER
02/21/1997 – 09/30/1997 FY97: $25,000 Total: $25,000
Prin. Invest.: R G STROM
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3937 UNIVERSITY OF ARIZONA **1486**
PLANETARY SPECTROSCOPY
03/26/1997 – 11/30/1997 FY97: $88,000 Total: $88,000
Prin. Invest.: D FINK
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 3938 UNIVERSITY OF ARIZONA **1487**
BEGINNING RESEARCH WITH THE 1.8-METER SPACEWATCH T
03/10/1997 – 11/30/1997 FY97: $257,985 Total: $257,985
Prin. Invest.: D GEHRELS
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 4001 UNIVERSITY OF ARIZONA **1488**
RAPID IDENTIFICATION OF PLANETARY RESOURCES FROM S
03/06/1997 – 02/28/1998 FY97: $127,000 Total: $127,000
Prin. Invest.: D MERENYI
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 4041 UNIVERSITY OF ARIZONA **1489**
COUPLED PHYSICAL AND CHEMICAL EVOLUTION OF THE SOL
02/27/1997 – 01/31/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: D I LUNINE
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4042 UNIVERSITY OF ARIZONA **1490**
STABILIZATION OF CCD QUANTUM EFFICIENCY IN THE ULT
04/07/1997 – 03/14/1998 FY97: $89,948 Total: $89,948
Prin. Invest.: D P LESSER
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 4049 UNIVERSITY OF ARIZONA **1491**
STUDIES OF COMETS AND NEAS
02/25/1997 – 02/28/1998 FY97: $124,825 Total: $124,825
Prin. Invest.: S M LARSON
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 4051 UNIVERSITY OF ARIZONA **1492**
THEORETICAL STUDIES OF VOLATILE PROCESSES IN THE A SURFACES OF OUTER SOLAR SYSTEM BODIES
02/25/1997 – 01/31/1998 FY97: $60,000 Total: $60,000
Prin. Invest.: J I LUNINE
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4054 UNIVERSITY OF ARIZONA **1493**
GAMMA-RAY REMOTE SENSING AND IN-SITU SPECTROSCOPY EXPLORATION MISSION (PIDDP)
03/11/1997 – 03/14/1998 FY97: $15,000 Total: $15,000
Prin. Invest.: W V BOYNTON
Tech. Officer: GSFC/J I TROMBKA
CASE Category: 13 – PHYSICS

NAG 5 4084 UNIVERSITY OF ARIZONA **1494**
GEOCHEMICAL EVOLUTION OF THE EARTH, MOON, IGNEOUS ERRESTRIAL PLANETARY BODIES
03/10/1997 – 02/28/1998 FY97: $220,000 Total: $220,000
Prin. Invest.: D J DRAKE
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 – CHEMISTRY

NAG 5 4107 UNIVERSITY OF ARIZONA **1495**
IMPROVED DATA UTILIZATION FROM PIXELATED CDZNTE DE GAMMA-RAY ASTRONOMY
04/24/1997 – 02/14/1998 FY97: $29,927 Total: $29,927
Prin. Invest.: H BARBER
Tech. Officer: HQ/J TUELLER
CASE Category: 11 – ASTRONOMY

NAG 5 4124 UNIVERSITY OF ARIZONA **1496**
SAR INVESTIGATIONS OF LATE PLEISTOCENE PALEOFLOODS PALEOCLIMATES IN CENTRAL ASIA
03/05/1997 – 01/31/1998 FY97: $54,999 Total: $54,999
Prin. Invest.: V R BAKER
Tech. Officer: GSFC/R H THOMAS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4142 UNIVERSITY OF ARIZONA **1497**
INFRARED EMISSION SPECTROSCOPY OF ASTROPHYSICAL MO
04/22/1997 – 03/31/1998 FY97: $75,000 Total: $75,000
Prin. Invest.: D F BERNATH
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 4149 UNIVERSITY OF ARIZONA **1498**
NUMERICAL STUDIES OF IMPACTS AND COLLISIONS
03/15/1997 – 01/31/1998 FY97: $39,960 Total: $39,960
Prin. Invest.: D BENZ
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4151 UNIVERSITY OF ARIZONA **1499**
INSTRUMENT UPGRADE FOR COMET OBSERVATIONS
03/17/1997 – 10/31/1997 FY97: $61,400 Total: $61,400
Prin. Invest.: M M LARSON
Tech. Officer: GSFC/W HUEBNER
CASE Category: 11 – ASTRONOMY

NAG 5 4158 UNIVERSITY OF ARIZONA **1500**
ESCAPED ATMOSPHERIC GASES IN THE MAGNETOSPHERES OF URANUS
03/11/1997 – 10/31/1997 FY97: $48,500 Total: $48,500
Prin. Invest.: D HERBERT
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4160 UNIVERSITY OF ARIZONA **1501**
OBSERVATIONS OF INNER-BELT C, E, AND M CLASS ASTER
04/09/1997 – 12/31/1997 FY97: $35,580 Total: $35,580
Prin. Invest.: M T BRITT
Tech. Officer: GSFC/W HUEBNER
CASE Category: 11 – ASTRONOMY

NAG 5 4161 UNIVERSITY OF ARIZONA **1502**
MARS THERMOSPHERE GENERAL CIRCULATION MODEL
03/27/1997 – 03/31/1998 FY97: $70,000 Total: $70,000
Prin. Invest.: D W BOUGHER
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4166 UNIVERSITY OF ARIZONA **1503**
OBSERVATIONAL STUDIES OF PLANETARY ATMOSPHERES
03/15/1997 – 03/14/1998 FY97: $60,002 Total: $60,002
Prin. Invest.: D M HUNTEN
Tech. Officer: GSFC/W HUEBNER
CASE Category: 11 – ASTRONOMY

NAG 5 4211 UNIVERSITY OF ARIZONA **1504**
NEW RESEARCH BY CCD SCANNING FOR COMETS AND ASTERO
03/19/1997 – 02/28/1998 FY97: $64,966 Total: $64,966
Prin. Invest.: D GEHRELS
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 4213 UNIVERSITY OF ARIZONA **1505**
INFRARED OBSERVATIONS OF SOLAR SYSTEM OBJECTS
03/19/1997 – 12/31/1997 FY97: $58,327 Total: $58,327
Prin. Invest.: D A LEBOFSKY
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 4214 UNIVERSITY OF ARIZONA **1506**
INTERIORS AND ATMOSPHERES OF THE OUTER PLANETS
03/24/1997 – 12/31/1998 FY97: $64,000 Total: $64,000
Prin. Invest.: D B HUBBARD
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 4350 UNIVERSITY OF ARIZONA **1507**
OBSERVATIONS OF COMET HALE–BOPP
04/17/1997 – 02/28/1999 FY97: $74,000 Total: $74,000
Prin. Invest.: M M LARSON
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 4353 UNIVERSITY OF ARIZONA **1508**
1997 APPARITION OF COMET HALE–BOPP
04/09/1997 – 12/31/1997 FY97: $7,000 Total: $7,000
Prin. Invest.: D FINK
Tech. Officer: GSFC/JBERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 4380 UNIVERSITY OF ARIZONA **1509**
PHYSICS OF CIRCUMSTELLAR ACCRETION DISKS
05/06/1997 – 02/28/1998 FY97: $44,988 Total: $44,988
Prin. Invest.: D BENZ
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4404 UNIVERSITY OF ARIZONA **1510**
X–RAY OBSERVATIONS OF THE HIGHEST–FIELD AM HER SYS
05/05/1997 – 05/14/1998 FY97: $5,091 Total: $5,091
Prin. Invest.: G D SCHMIDT
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4451 UNIVERSITY OF ARIZONA **1511**
STUDIES IN PLANETARY RINGS
05/08/1997 – 12/31/1997 FY97: $29,400 Total: $29,400
Prin. Invest.: D C PORCO
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4456 UNIVERSITY OF ARIZONA **1512**
HARNESSING SOLAR IRRADIANCE FOR SPACE LIFE SUPPORT
05/23/1997 – 04/30/1998 FY97: $132,834 Total: $132,834
Prin. Invest.: J L CUELLO
Tech. Officer: GSFC/M AVERNER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 4480 UNIVERSITY OF ARIZONA **1513**
EOS/IDS PROJECT TO INTERFACE CLIMATE MODELING ON G SCALES WITH EARTH OBSERVING SYSTEM (EOS) OBSERVAT
05/09/1997 – 03/31/1998 FY97: $600,000 Total: $600,000
Prin. Invest.: R DICKINSON
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4559 UNIVERSITY OF ARIZONA **1514**
THEORY OF CHARGED–PARTICLE TRANSPORT AND ASTROPHYS
06/02/1997 – 10/31/1997 FY97: $70,000 Total: $70,000
Prin. Invest.: J JOKIPII
Tech. Officer: GSFC/M A FORMAN
CASE Category: 13 – PHYSICS

NAG 5 4560 UNIVERSITY OF ARIZONA **1515**
IR OBSERVATIONS OF ICY SATELLITES IN THE OUTER SOL
06/23/1997 – 09/30/1998 FY97: $82,369 Total: $82,369
Prin. Invest.: D H BROWN
Tech. Officer: GSFC/W HUEBNER
CASE Category: 11 – ASTRONOMY

NAG 5 4598 UNIVERSITY OF ARIZONA **1516**
LONG TERM DOPPLER SHIFT AND LINE PROFILE STUDIES O TARGET STARS
05/20/1997 – 02/28/1998 FY97: $150,967 Total: $150,967
Prin. Invest.: D S MCMILLAN
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4667 UNIVERSITY OF ARIZONA **1517**
FORMATION OF LOW MASS STARS, BROWN DWARFS
06/26/1997 – 06/30/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: P RIEKE
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4687 UNIVERSITY OF ARIZONA **1518**
INTERNATIONAL WORKSHOP ON DYNAMICS OF LAND–USE/LAN HINDU–KUSH HIMALAYA
06/26/1997 – 05/31/1998 FY97: $10,800 Total: $10,800
Prin. Invest.: L J GRAUMLICH, NONE
Tech. Officer: GSFC/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4689 UNIVERSITY OF ARIZONA **1519**
ENERGETIC PHENOMENA IN THE PROTOPLANETARY NEBULA
06/17/1997 – 10/31/1998 FY97: $45,000 Total: $45,000
Prin. Invest.: D H LEVY
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4693 UNIVERSITY OF ARIZONA **1520**
INCORPORATION OF NOBLE GASES INTO CARBONACEOUS MAT
06/17/1997 – 05/31/1998 FY97: $36,753 Total: $36,753
Prin. Invest.: D D SWINDLE
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4716 UNIVERSITY OF ARIZONA **1521**
COOLING HISTORY OF METEORITES:CONSTRAINTS FROM FE– TALLINE PARTITIONING AND INTERDIFFUSION KINETICS
06/23/1997 – 01/31/1998 FY97: $60,000 Total: $60,000
Prin. Invest.: D GANGULY
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4767 UNIVERSITY OF ARIZONA **1522**
NOBLE GAS STUDIES OF EARLY SOLAR SYSTEM HISTORY
06/09/1997 – 05/31/1998 FY97: $32,000 Total: $32,000
Prin. Invest.: D D SWINDLE
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4774 UNIVERSITY OF ARIZONA **1523**
HRI OBSERVATIONS OF HIGH REDSHIFT QUASARS
06/18/1997 – 05/31/1998 FY97: $5,300 Total: $5,300
Prin. Invest.: J BECHTOLD
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 4832 UNIVERSITY OF ARIZONA **1524**
COSMOGENIC 14C IN METEORITES AND LUNAR SAMPLES
06/17/1997 – 05/31/1998 FY97: $35,000 Total: $35,000
Prin. Invest.: D JULL
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4834 UNIVERSITY OF ARIZONA **1525**
TRANSPORT EQUATIONS OF COSMIC RAYS
06/17/1997 – 03/14/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: M KOTA
Tech. Officer: GSFC/M A FORMAN
CASE Category: 11 – ASTRONOMY

NAG 5 4835 UNIVERSITY OF ARIZONA **1526**
MAGNETOHYDRODYNAMIC WAVE–WAVE INTERACTIONS IN THE
06/17/1997 – 04/30/1998 FY97: $33,000 Total: $33,000
Prin. Invest.: D M WEBB
Tech. Officer: GSFC/M A FORMAN
CASE Category: 11 – ASTRONOMY

NAG 5 4845 UNIVERSITY OF ARIZONA **1527**
GAS–GRAIN INTERACTIONS
06/27/1997 – 10/31/1998 FY97: $37,600 Total: $37,600
Prin. Invest.: D L HOOD
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4944 UNIVERSITY OF ARIZONA **1528**
MINERALOGIC AND TRACE–ELEMENT STUDIES OF METEORITE IMPACTS
06/23/1997 – 12/14/1997 FY97: $285,000 Total: $285,000
Prin. Invest.: D V BOYNTON
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4984 UNIVERSITY OF ARIZONA **1529**
MEASURING MARTIAN ATMOSPHERIC WATER VAPOR
06/26/1997 – 03/14/1998 FY97: $64,300 Total: $64,300
Prin. Invest.: D L SPRAGUE
Tech. Officer: GSFC/W HUEBNER
CASE Category: 11 – ASTRONOMY

NAG 5 5031 UNIVERSITY OF ARIZONA **1530**
CONTINUOUS CHEMICAL ANALYSIS OF GREENLAND FIRN & ICE CORES FOR ESTIMATING ANNUAL ACCUMULATION
03/28/1995 – 12/31/1997 FY97: $89,573 Total: $252,370
Prin. Invest.: R C BALES
Tech. Officer: GSFC/W B KRABILL
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 5143 UNIVERSITY OF ARIZONA **1531**
A TWO–DIMENSIONAL IMAGING FUV SPECTROGRAPH
06/23/1997 – 10/31/1997 FY97: $149,903 Total: $149,903
Prin. Invest.: J HOLBERG
Tech. Officer: GSFC/W JOHNSON
CASE Category: 13 – PHYSICS

NAG 5 6070 UNIVERSITY OF ARIZONA **1532**
PROPOSAL TITLE "INVESTIGATION OF SIGNAL AND IMAGE FOR CLOUD DETECTION BY GROUND–BASED AND SPACEBORNE
07/28/1997 – 06/30/1998 FY97: $51,713 Total: $51,713
Prin. Invest.: J REAGAN
Tech. Officer: GSFC/A NEGRI
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 6184 UNIVERSITY OF ARIZONA **1533**
SUBSURFACE LIQUID WATER ON MARS: EVIDENCE FROM CR AND EXO-BIOLOGICAL IMPLICATIONS/PRESIDENTIAL EARLY
07/30/1997 – 07/14/1998 FY97: $131,860 Total: $131,860
Prin. Invest.: D V CHYBA
Tech. Officer: GSFC/M A MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 8 948 UNIVERSITY OF ARIZONA **1534**
STUDIES ON THE RESPONSE OF EMULSIONS TO EXTERNALLY IMPOSED ELECTRIC AND VELOCITY FIELDS
01/25/1993 – 01/21/1996 FY97: –$3,919 Total: $251,081
Prin. Invest.: J C BAYGENTS, H A STONE
Tech. Officer: MSFC/P H RHODES
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 8 1079 UNIVERSITY OF ARIZONA **1535**
PLASMA IMAGING
06/08/1994 – 06/30/1997 FY97: $0 Total: $234,100
Prin. Invest.: A L BROADFOOT
Tech. Officer: MSFC/J H OWENS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 1234 UNIVERSITY OF ARIZONA **1536**
NON-EQUILIBRIUM PHASE TRANSFORMATION
04/25/1996 – 04/29/1998 FY97: $70,000 Total: $210,000
Prin. Invest.: K A JACKSON
Tech. Officer: MSFC/C R TALLEY
CASE Category: 13 – PHYSICS

NAG 9 923 UNIVERSITY OF ARIZONA **1537**
POLYCRYSTALLINE ZIRCONIA ELEC CELL STACK FOR CO2 ELECTROLYSIS
01/29/1997 – 11/30/1997 FY97: $90,749 Total: $90,749
Prin. Invest.: K R SRIDHAR
Tech. Officer: JSC/R S BAIRD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 428 UNIVERSITY OF ARIZONA **1538**
CRATER MODIFICATION BY GRAVITY
03/15/1983 – 09/30/1997 FY97: $0 Total: $1,716,010
Prin. Invest.: H J MELOSH
Tech. Officer: HQ/J R UNDERWOOD, HQ/D SCOTT
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 887 UNIVERSITY OF ARIZONA **1539**
DEVELOPMENT OF CCD SCANNING FOR ASTEROIDS/COMETS
12/01/1985 – 06/30/1997 FY97: $0 Total: $703,315
Prin. Invest.: T GEHRELS
Tech. Officer: HQ/H C BRINTON, HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NAGW 909 UNIVERSITY OF ARIZONA **1540**
OBS & INT OF RADIATIVE & PHOTOCHEMICAL PROCESSES
07/01/1986 – 02/28/1997 FY97: -$435 Total: $815,817
Prin. Invest.: L L HOOD
Tech. Officer: HQ/R D MCPETERS, HQ/M J PRATHER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 1029 UNIVERSITY OF ARIZONA **1541**
COLLISIONAL AND DYNAMICAL PROCESSES
12/01/1986 – 09/30/1996 FY97: $0 Total: $928,357
Prin. Invest.: R J GREENBERG
Tech. Officer: HQ/J R UNDERWOOD, HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1039 UNIVERSITY OF ARIZONA **1542**
THEORETICAL STUDIES OF VOLATILE PROCESSES
02/15/1987 – 09/30/1997 FY97: $0 Total: $478,099
Prin. Invest.: J I LUNINE
Tech. Officer: HQ/J T BERGSTRALH, HQ/W L QUAIDE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 1283 UNIVERSITY OF ARIZONA **1543**
SEARCH FOR EXTRASOLAR PLANETS
04/12/1988 – 06/30/1997 FY97: $0 Total: $941,536
Prin. Invest.: R S MCMILLAN
Tech. Officer: HQ/H CBRINTON, HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NAGW 1285 UNIVERSITY OF ARIZONA **1544**
SPACE INFRARED DETECTOR DEVELOPMENT
05/11/1988 – 06/30/1998 FY97: $0 Total: $1,363,732
Prin. Invest.: E YOUNG
Tech. Officer: HQ/F C GILLETT
CASE Category: 11 – ASTRONOMY

NAGW 1332 UNIVERSITY OF ARIZONA **1545**
CENTER FOR UTIL. OF LOCAL PLANETARY RESOURCES
07/13/1988 – 10/31/1997 FY97: $0 Total: $9,970,182
Prin. Invest.: S C CROW, K N RAMOHALLI
Tech. Officer: HQ/B F QUIGLEY
CASE Category: 49 – ENGINEERING, OTHER

NAGW 1498 UNIVERSITY OF ARIZONA **1546**
AN INVESTIGATION OF THE INTERACTION BETWEEN THE NEUTRAL
11/17/1988 – 09/30/1997 FY97: $0 Total: $309,432
Prin. Invest.: F HERBERT
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAGW 1549 UNIVERSITY OF ARIZONA **1547**
PLANETARY SPECTROSCOPY
12/12/1988 – 09/30/1997 FY97: $0 Total: $812,753
Prin. Invest.: U FINK
Tech. Officer: HQ/E BARKER, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 1555 UNIVERSITY OF ARIZONA **1548**
INTERIORS OF THE GIANT PLANETS
12/12/1988 – 09/30/1997 FY97: $0 Total: $586,381
Prin. Invest.: W B HUBBARD
Tech. Officer: HQ/J HRAHE
CASE Category: 11 – ASTRONOMY

NAGW 1931 UNIVERSITY OF ARIZONA **1549**
THEORY OF CHARGED-PARTICLE TRANSPORT AND ASTROPHYS ICAL PLASMAS
02/23/1990 – 10/31/1996 FY97: $0 Total: $706,393
Prin. Invest.: J R JOKIPPI
Tech. Officer: HQ/J C LING, HQ/W V JONES
CASE Category: 13 – PHYSICS

NAGW 1974 UNIVERSITY OF ARIZONA **1550**
A STUDY OF THE EVOLUTION OF DUST JETS IN COMET HAL LEY
02/06/1990 – 09/30/1997 FY97: $0 Total: $264,878
Prin. Invest.: S M LARSON
Tech. Officer: HQ/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAGW 1975 UNIVERSITY OF ARIZONA **1551**
INFRARED OBSERVATIONS OF SOLAR SYSTEM OBJECTS
04/10/1990 – 06/30/1997 FY97: $0 Total: $323,552
Prin. Invest.: L A LEBOFSKY
Tech. Officer: HQ/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAGW 2017 UNIVERSITY OF ARIZONA **1552**
NON-LTE MODELS OF THE MESOSPHERES OF THE OUTER PLA NETS AND THEIR SATELLITES
04/06/1990 – 11/30/1996 FY97: -$17 Total: $397,814
Prin. Invest.: R YELLE
Tech. Officer: HQ/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAGW 2021 UNIVERSITY OF ARIZONA **1553**
PLANETARY CRATERING INVESTIGATIONS AND ICY SATELLI TE TECTONICS
03/05/1990 – 09/30/1996 FY97: $0 Total: $437,638
Prin. Invest.: R G STROM
Tech. Officer: HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2176 UNIVERSITY OF ARIZONA **1554**
GENERATION AND BEHAVIOR OF SOLAR–SYSTEM MAGNETIC F IELDS
07/27/1990 – 06/30/1997 FY97: $0 Total: $625,923
Prin. Invest.: E H LEVY
Tech. Officer: HQ/T A MAXWELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2249 UNIVERSITY OF ARIZONA **1555**
NAGW–2249/UNIV ARIZONA/THE MEASUREMENT OF ISOTOPIC ABUNDANCE & MOLECULAR COMPOSITION OF INDIVIDUAL
06/13/1991 – 03/30/1998 FY97: $0 Total: $30,000
Prin. Invest.: C Y FAN
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 2250 UNIVERSITY OF ARIZONA **1556**
NAGW–2250/UNIV ARIZONA/COUPLED PHYSICAL & CHEMICAL EVOLUTION OF THE SOLAR NEBULA: A CONSORTIUM STUDY
03/06/1991 – 06/30/1997 FY97: $0 Total: $239,814
Prin. Invest.: J I LUNINE
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 2291 UNIVERSITY OF ARIZONA **1557**
ENERGETIC PHENOMENA IN PROTOPLANETARY NEBULAE
02/26/1991 – 09/30/1997 FY97: $0 Total: $281,122
Prin. Invest.: E LEVY
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 2315 UNIVERSITY OF ARIZONA **1558**
NAGW–2315/UNIV ARIZONA/GAS–PLASMA–GRAIN INTERACTIONS
05/23/1991 – 10/31/1996 FY97: $0 Total: $165,600
Prin. Invest.: L L HOOD
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 2357 UNIVERSITY OF ARIZONA **1559**
DEVELOPMENT OF LIGHTWEIGHT MIRRORS FOR STRATOSPHER IC AND SPACE INFRARED AND SUB
01/29/1991 – 03/31/1998 FY97: $0 Total: $651,400
Prin. Invest.: W F HOFFMAN
Tech. Officer: HQ/M D BICAY
CASE Category: 13 – PHYSICS

NAGW 2425 UNIVERSITY OF ARIZONA **1560**
UTILIZATION OF EOS DATA IN QUANTIFYING THE PROCESS ES CONTROLLING THE HYDROLOGIC CYCLE IN ARID REGIO
04/19/1991 – 09/30/1997 FY97: $0 Total: $3,276,576
Prin. Invest.: S SOROOSHIAN
Tech. Officer: HQ/G ASRAR, HQ/W S WILSON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 2450 UNIVERSITY OF ARIZONA **1561**
MULTIDIMENSIONAL MODELS OF TYPE I SUPERNOVAE
04/12/1991 – 11/30/1995 FY97: –$3 Total: $509,997
Prin. Invest.: D ARNETT
Tech. Officer: HQ/G S KUTTER, HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 2493 UNIVERSITY OF ARIZONA **1562**
NAGW–2493/UNIV ARIZONA/MARS MESOSPHERE THERMOSPHER E COUPLING
08/06/1991 – 09/30/1997 FY97: $65,000 Total: $354,329
Prin. Invest.: S W BOUGHER
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAGW 2720 UNIVERSITY OF ARIZONA **1563**
ASTRONOMICAL OBSERVATIONS WITH THE VOYAGER ULTRAVI OLET SPECTROMETER
09/04/1991 – 09/30/1996 FY97: $0 Total: $245,671
Prin. Invest.: HOLBERG
Tech. Officer: HQ/F GIOVANE
CASE Category: 11 – ASTRONOMY

NAGW 2822 UNIVERSITY OF ARIZONA **1564**
A MULTI–WAVELENGTH STUDY OF THE INNER 3–PC REGION AT THE GALACTIC CENTER
01/03/1992 – 04/30/1998 FY97: $0 Total: $447,354
Prin. Invest.: F MELIA
Tech. Officer: HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 2831 UNIVERSITY OF ARIZONA **1565**
NAGW–2831/UNIV ARIZONA/STUDIES OF EXTENDED PLANETARY
01/15/1992 – 12/31/1995 FY97: –$41 Total: $330,758
Prin. Invest.: D M HUNTEN
Tech. Officer: HQ/W L QUAIDE
CASE Category: 11 – ASTRONOMY

NAGW 2878 UNIVERSITY OF ARIZONA **1566**
PHYSICAL STUDIES OF SMALL ASTEROIDS, COMETARY AND GALILEO TARGETS 243 IDA AND 951 GASPRA
02/10/1992 – 04/30/1997 FY97: $0 Total: $166,916
Prin. Invest.: R MCMILLAN
Tech. Officer: HQ/J L RAHE
CASE Category: 11 – ASTRONOMY

NAGW 3076 UNIVERSITY OF ARIZONA **1567**
NAGW–3076/UNIV ARIZONA/INSTRUMENTATION FOR CHEMICA L ANALYSIS OF PLANETARY SURFACES
06/12/1992 – 09/30/1997 FY97: $0 Total: $996,266
Prin. Invest.: W V BOYNTON
Tech. Officer: HQ/H C BRINTON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3084 UNIVERSITY OF ARIZONA **1568**
LUNAR ORBITAL DYNAMICS THROUGH GEOLOGIC AGES AS REVEALED BY TIDAL RHYTHMITES
07/01/1992 – 06/30/1996 FY97: –$29 Total: $193,508
Prin. Invest.: C P SONETT
Tech. Officer: HQ/J K ALEXANDER, HQ/D A HOLLAND
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3160 UNIVERSITY OF ARIZONA **1569**
X-RAY STUDIES OF THE NEARBY STARS
08/11/1992 – 11/30/1996 FY97: -$175 Total: $284,877
Prin. Invest.: T FLEMING
Tech. Officer: HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 3166 UNIVERSITY OF ARIZONA **1570**
NAGW-3166/UNIV ARIZONA/LITHOGRAPHIC & STRUCTURAL INFLUENCES ON LANDSCAPE FRACTAL DIMENSION
08/21/1992 – 07/31/1996 FY97: $0 Total: $69,174
Prin. Invest.: C CHASE
Tech. Officer: HQ/M BALTUCK
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3348 UNIVERSITY OF ARIZONA **1571**
GEOCHEMICAL EVOLUTION OF THE EARTH
01/15/1993 – 09/30/1997 FY97: $0 Total: $815,462
Prin. Invest.: M J DRAKE
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3368 UNIVERSITY OF ARIZONA **1572**
THE AGGREGATE REPRESENTATION OF TERRESTRIAL LAND C OVERS
02/02/1993 – 06/30/1996 FY97: -$97 Total: $428,598
Prin. Invest.: W J SHUTTLEWORTH
Tech. Officer: HQ/R E MURPHY
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3373 UNIVERSITY OF ARIZONA **1573**
MINERALOGIC AND TRACE ELEMENT STUDIES OF METEORITE S AND METERORITE IMPACTS
02/10/1993 – 09/30/1997 FY97: $0 Total: $992,070
Prin. Invest.: W BOYNTON
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3380 UNIVERSITY OF ARIZONA **1574**
NAGW-3380/B UNIV. ARIZ "SPACEWATCH UPGRADE AND FOL LOW-UP", 7/1/93 START
11/09/1993 – 09/30/1997 FY97: $0 Total: $400,888
Prin. Invest.: T GEHRELS
Tech. Officer: HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NAGW 3400 UNIVERSITY OF ARIZONA **1575**
ORIGIN AND EVOLUTION OF PLANETARY ATMOSPHERE
03/15/1993 – 09/30/1997 FY97: $59,992 Total: $244,905
Prin. Invest.: J LEWIS
Tech. Officer: HQ/H C BRINTON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3406 UNIVERSITY OF ARIZONA **1576**
PHYSICS OF CIRCUMSTELLAR ACCRETION DISKS
02/18/1993 – 12/31/1997 FY97: $0 Total: $180,679
Prin. Invest.: W BENZ
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3411 UNIVERSITY OF ARIZONA **1577**
STUDIES IN PLANETARY RINGS
02/18/1993 – 12/31/1996 FY97: -$2 Total: $115,998
Prin. Invest.: C C PORCO
Tech. Officer: HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3543 UNIVERSITY OF ARIZONA **1578**
NAGW-3543/UNIV ARIZONA/SEAWIFS CALIBRATION AND ALG ORTHM VALIDATION
04/21/1993 – 09/30/1998 FY97: $0 Total: $414,079
Prin. Invest.: P N SLATER
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 33 – OCEANOGRAPHY

NAGW 3555 UNIVERSITY OF ARIZONA **1579**
EXTRACTION OF SOIL AND VEGETATION PARAMETERS FROM HIGH RESOLUTION BI-DIRECTIONAL REFLEXTANCESPECTRA
04/30/1993 – 05/31/1997 FY97: $0 Total: $129,378
Prin. Invest.: A R HUETE
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3611 UNIVERSITY OF ARIZONA **1580**
NOBLE GAS STUDIES OF EARLY SOLAR SYSTEM HISTORY
05/21/1993 – 08/31/1997 FY97: $0 Total: $131,712
Prin. Invest.: T SWINDLE
Tech. Officer: HQ/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3614 UNIVERSITY OF ARIZONA **1581**
COSMOGENIC 14C IN ANTARCTIC AND NON-ANTARCTIC METE ORITES AND LUNAR SAMPLES
05/24/1993 – 05/31/1997 FY97: $0 Total: $138,053
Prin. Invest.: A J JULL
Tech. Officer: HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3635 UNIVERSITY OF ARIZONA **1582**
MISSION OF OPPORTUNITY: IN SITU MEASUREMENTS OF E NERGETIC NEUTRAL ATOMS
06/16/1993 – 06/30/1997 FY97: $0 Total: $111,998
Prin. Invest.: C CURTIS
Tech. Officer: HQ/E C WHIPPLE, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 3638 UNIVERSITY OF ARIZONA **1583**
CATION ORDERING AND COMPOSITIONAL ZONING IN METEOR ITIC OTHOPYROXENES: IMPLICATIONS FOR COOLING RAT
07/05/1993 – 09/30/1997 FY97: $60,000 Total: $169,316
Prin. Invest.: J GANGULY
Tech. Officer: HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3657 UNIVERSITY OF ARIZONA **1584**
THE VOYAGER ULTRAVIOLET SPECTROMETER EXPERIMENT TH ROUGH THE VOYAGER INTERSTELLAR MISSION
06/16/1993 – 09/30/1997 FY97: $0 Total: $583,000
Prin. Invest.: A BROADFOOT
Tech. Officer: HQ/W V JONES, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 3705 UNIVERSITY OF ARIZONA **1585**
IMPACT CRATER INVESTIGATIONS OF VENUS
08/11/1993 – 09/15/1996 FY97: $0 Total: $50,000
Prin. Invest.: R G STROM
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3820 UNIVERSITY OF ARIZONA **1586**
NAGW-3820/UNIV ARIZONA; OBSERVATIONS OF INNER BELT C, E, AND M CLASS ASTERIODS
11/24/1993 – 06/30/1997 FY97: $0 Total: $93,879
Prin. Invest.: D BRITT
Tech. Officer: HQ/H H BRINTON
CASE Category: 11 – ASTRONOMY

NAGW 3846 UNIVERSITY OF ARIZONA **1587**
UNIV ARIZONA; OPTIMIZING CHARGE-COUPLED DEVICES FO R THE NEAR ULTRAVIOLET
01/11/1994 – 01/31/1998 FY97: $0 Total: $179,944
Prin. Invest.: M P LESSER
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 3904 UNIVERSITY OF ARIZONA **1588**
NUMERICAL STUDIES OF IMPACTS AND COLLISIONS
03/23/1994 – 01/31/1998 FY97: $0 Total: $129,857
Prin. Invest.: W BENZ
Tech. Officer: HQ/R WILLIAMS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 4074 UNIVERSITY OF ARIZONA **1589**
SILICON MICROMACHINING OF SUBMILLIMETER WAVEGUIDE STRUCTURES
07/15/1994 – 12/31/1995 FY97: $0 Total: $39,964
Prin. Invest.: C K WALKER
Tech. Officer: HQ/L J CAROFF
CASE Category: 11 – ASTRONOMY

NAGW 4083 UNIVERSITY OF ARIZONA **1590**
LOW MASS STARS AND BROWN DWARFS: FORMATION AND TE ST OF ATMOSPHERIC MODELS
07/15/1994 – 06/30/1997 FY97: $0 Total: $135,000
Prin. Invest.: G RIEKE
Tech. Officer: HQ/P ROGERS
CASE Category: 11 – ASTRONOMY

NAGW 4165 UNIVERSITY OF ARIZONA **1591**
REMOTE SENSING SOIL MOISTURE USING FOUR DIMENSIONA L DATA ASSIMILATION
10/12/1994 – 09/30/1997 FY97: $0 Total: $137,000
Prin. Invest.: W J SHUTTLEWORTH
Tech. Officer: HQ/M Y WEI, HQ/J S THEON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4308 UNIVERSITY OF ARIZONA **1592**
PLANETARY AERONOMY AND RELATED STUDIES
03/10/1995 – 04/30/1997 FY97: $60,000 Total: $120,000
Prin. Invest.: D HUNTEN
Tech. Officer: HQ/J BERGSTALH
CASE Category: 11 – ASTRONOMY

NAGW 4403 UNIVERSITY OF ARIZONA **1593**
WINDBLOWN FEATURES ON VENUS AND GEOLOGIC MAPPING (V-32)
04/14/1995 – 09/30/1997 FY97: $0 Total: $100,000
Prin. Invest.: R GREELEY
Tech. Officer: HQ/H BRINTON
CASE Category: 22 – COMPUTER SCIENCE

NAGW 4542 UNIVERSITY OF ARIZONA **1594**
TRANSPORT EQUATIONS OF COSMIC RAYS
05/24/1995 – 02/28/1998 FY97: $0 Total: $100,000
Prin. Invest.: J KOTA
Tech. Officer: HQ/W V JONES, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4593 UNIVERSITY OF ARIZONA **1595**
UVSTAR SCIENCE MANAGEMENT PROGRAM
06/29/1995 – 06/30/1997 FY97: $0 Total: $60,759
Prin. Invest.: B SANDEL
Tech. Officer: HQ/J KREHBIEL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4627 UNIVERSITY OF ARIZONA **1596**
NEAR INFRARED OBSERVATIONS OF TITAN'S LOWER ASTOMSPHERE AND SURFACE
07/21/1995 – 03/31/1996 FY97: $0 Total: $47,995
Prin. Invest.: P SMITH
Tech. Officer: HQ/E BARKER
CASE Category: 11 – ASTRONOMY

NAGW 4736 UNIVERSITY OF ARIZONA **1597**
INFRARED EMISSION SPECTROSCOPY OF ASTROPHYSICAL MO LECULES
09/06/1995 – 03/31/1997 FY97: $0 Total: $130,000
Prin. Invest.: P BERNATH
Tech. Officer: HQ/L J CAROFF, HQ/L J CAROFF
CASE Category: 11 – ASTRONOMY

NAGW 4789 UNIVERSITY OF ARIZONA **1598**
MORPHOLOGY AND EVOLUTION OF COMET P/SHOEMAKER LEVY 9
09/25/1995 – 06/30/1997 FY97: $0 Total: $25,000
Prin. Invest.: J SCOTTI
Tech. Officer: HQ/E BARKER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4824 UNIVERSITY OF ARIZONA **1599**
REDUCTION AND ANALYSIS OF CINE DATA OF THE IMPACT OF D/SHOEMAKER-LEVY 9 WITH JUPITER
10/17/1995 – 08/31/1996 FY97: $0 Total: $100,000
Prin. Invest.: S LARSON
Tech. Officer: HQ/E BARKER
CASE Category: 11 – ASTRONOMY

NAGW 4884 UNIVERSITY OF ARIZONA **1600**
THE ECONOMIC AND DEMOGRAPHIC CAUSES OF LAND USE AN D LAND COVER CHANGE IN MEXICO
12/11/1995 – 12/31/1997 FY97: $0 Total: $150,905
Prin. Invest.: D LIVERMAN
Tech. Officer: HQ/N MAYNARD, HQ/R C HARRISS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 4925 UNIVERSITY OF ARIZONA **1601**
SAR INVESTIGATIONS OF LATE PLEISTOCENE PALEOFLOODS PALEO-LAKES, AND PALEOCLIMATED IN CENTRAL ASIA
02/12/1996 – 12/31/1998 FY97: $0 Total: $50,000
Prin. Invest.: V R BAKER
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4944 UNIVERSITY OF ARIZONA **1602**
BEGINNING RESEARCH WITH THE 1.8 METER SPACEWATCH T ELESCOPE
02/14/1996 – 06/30/1997 FY97: $0 Total: $129,675
Prin. Invest.: T GEHRELS
Tech. Officer: HQ/E BARKER, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 4983 UNIVERSITY OF ARIZONA **1603**
EJECTA REACCRETION ON 243 IDA
02/27/1996 – 02/28/1997 FY97: $0 Total: $25,000
Prin. Invest.: P E GEISSLER
Tech. Officer: HQ/J M BOYCE, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 4987 UNIVERSITY OF ARIZONA **1604**
CORONAGRAPHIC OBSERVATIONS OF LUNAR SODIUM
03/01/1996 – 06/30/1997 FY97: $0 Total: $20,000
Prin. Invest.: D M HUNTEN
Tech. Officer: HQ/E BARKER, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 4996 UNIVERSITY OF ARIZONA **1605**
STUDIES OF COMETS AND NEAS
03/13/1996 – 02/28/1997 FY97: $0 Total: $78,425
Prin. Invest.: S M LARSON
Tech. Officer: HQ/E BARKER, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 5055 UNIVERSITY OF ARIZONA **1606**
MAGNETOHYRODYNAMIC WAVE–WAVE INTERACTIONS IN THE S OLAR WIND
05/17/1996 – 09/30/1997 FY97: $0 Total: $32,000
Prin. Invest.: G M WEBB
Tech. Officer: HQ/M A FORMAN, HQ/G L WITHBROE
CASE Category: 13 – PHYSICS

NAGW 5118 UNIVERSITY OF ARIZONA **1607**
SYSTEMATIC PROCESSING OF THE CLEMENTINE LUNAR IMAG ING DATA-SET
06/28/1996 – 09/30/1997 FY97: $0 Total: $200,000
Prin. Invest.: A S MCWEN
Tech. Officer: HQ/J BOYCE
CASE Category: .32 – GEOLOGICAL SCIENCE

NAGW 5147 UNIVERSITY OF ARIZONA **1608**
TOMOGRAPHIC ANALYSIS OF EXTREME ULTRAVIOLET OBSERV ATIONS OF THE IO PLASMA TORUS
08/30/1996 – 08/31/1997 FY97: $0 Total: $56,100
Prin. Invest.: F L HERBERT
Tech. Officer: HQ/J D BOHLIN, HQ/G L WITHBROE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5159 UNIVERSITY OF ARIZONA **1609**
METEORITE IMPACT AND GLOBAL CHANGE
08/23/1996 – 07/31/1997 FY97: $0 Total: $43,000
Prin. Invest.: H MELOSH
Tech. Officer: HQ/M MEYER, HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 5170 UNIVERSITY OF ARIZONA **1610**
INCORPORATION OF NOBLE GASES INTO CARBONACEOUS MAT ERIALS
09/20/1996 – 05/31/1997 FY97: $0 Total: $34,300
Prin. Invest.: T D SWINDLE
Tech. Officer: HQ/P G ROGERS, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 5211 UNIVERSITY OF ARIZONA **1611**
SEARCH FOR HIGH VELOCITY NA AND LI IN MERCURY'S AT MOSPHERE
09/23/1996 – 08/31/1997 FY97: $34,937 Total: $34,937
Prin. Invest.: A L SPRAGUE
Tech. Officer: HQ/E BARKER, HQ/H C BRINTON
CASE Category: 11 – ASTRONOMY

NAGW 5246 UNIVERSITY OF ARIZONA **1612**
THE ROLE OF ATMOSPHERIC–LAND–OCEAN COUPLING
01/11/1997 – 06/30/1997 FY97: $143,000 Total: $143,000
Prin. Invest.: R FU
Tech. Officer: HQ/K H BERGMAN, HQ/R C HARRISS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG10 92 UNIVERSITY OF ARIZONA **1613**
LIGHTNING FIELD CHANGES & DISPLACEMENT_CURRENTS AT KSC
08/12/1991 – 04/30/1998 FY97: $70,050 Total: $251,650
Prin. Invest.: E P KRIDER
Tech. Officer: KSC/W JAFFERIS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG10 134 UNIVERSITY OF ARIZONA **1614**
EFFECT OF MICROGRAVITY ON TOBACCO HORNWORM (MANAUCA SEXTA) DURING METAMORPHOSIS
05/02/1994 – 10/01/1998 FY97: $0 Total: $230,575
Prin. Invest.: M T TISCHLER
Tech. Officer: KSC/W M KNOTT
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAS 1 18939 UNIVERSITY OF ARIZONA **1615**
SAGE III SCIENCE INVESTIGATION SUPPORT – P.I. – B. HERMAN
02/28/1990 – 01/31/2005 FY97: $90,000 Total: $351,500
Prin. Invest.: B M HERMAN
Tech. Officer: LARC/G L MADDREA JR, LARC/L R MCMASTER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 1 19953 UNIVERSITY OF ARIZONA **1616**
SCIENCE SUPPORT TO THE LITE SCIENCE TEAM
05/24/1993 – 05/23/2000 FY97: $96,000 Total: $269,000
Prin. Invest.: J A REAGAN
Tech. Officer: LARC/G L MADDREA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 2 13464 UNIVERSITY OF ARIZONA **1617**
SERVICES TO SUPPORT THE OPERATION AND MAINTENANCE OF THE NASA 1.5 METER TELESCOPE AT MT LEMMON, AZ
10/29/1991 – 07/31/1997 FY97: -$1,614 Total: $778,120
Prin. Invest.: M RIEKE
Tech. Officer: ARC/C D LAUGHLIN
CASE Category: 11 – ASTRONOMY

NAS 5 30124 UNIVERSITY OF ARIZONA **1618**
SCIENTIFIC INTREPRETATION OF GPMS DATA
08/10/1987 – 04/30/1998 FY97: $63,999 Total: $362,842
Prin. Invest.: D HUNTEN
Tech. Officer: GSFC/J R RICHARDS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 31289 UNIVERSITY OF ARIZONA **1619**
DEVELOPMENT OF THE HST SECOND GENERATION INSTRUMENT TITLED NICMOS
12/20/1990 – 09/30/1997 FY97: $3,951,275 Total: $91,752,561
Prin. Invest.: R L THOMPSON
Tech. Officer: GSFC/M M JUROTICH
CASE Category: 41 – AERONAUTICAL ENGNR

NAS 5 31364 UNIVERSITY OF ARIZONA **1620**
EOS/MODIS INVESTIGATION FROM DR. HUETE
01/24/1992 – 12/14/2001 FY97: $433,000 Total: $2,042,109
Prin. Invest.: A HUETE
Tech. Officer: GSFC/H OSEROFF
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 31717 UNIVERSITY OF ARIZONA **1621**
EOS INVESTIGATION
01/03/1992 – 12/14/2001 FY97: $825,000 Total: $5,319,250
Prin. Invest.: P N SLATER
Tech. Officer: GSFC/L STUART
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 8 97309 UNIVERSITY OF ARIZONA **1622**
FABRICATION, TEST, AND DELIVERY OF PRIMARY MIRROR SYSTEM DEMONSTRATOR.
07/17/1997 – 10/02/1997 FY97: $264,950 Total: $264,950
Prin. Invest.: N AVAILABLE, NONE
Tech. Officer: MSFC/N AVAILABLE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 2 329 UNIVERSITY OF ARIZONA **1623**
ANALYSIS OF TURBULENCE ENCOUNTERS USING AIRLINE DIGITAL FLIGHT RECORDS
01/01/1985 – 12/31/1997 FY97: $15,957 Total: $183,852
Prin. Invest.: E K PARKS, NONE
Tech. Officer: ARC/R E BACH, ARC
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5239 UNIVERSITY OF ARIZONA **1624**
DEVELOPMENT OF THE COUPLED LEAFMOD/SART CANOPY– LEVEL RADIATIVE TRANSFER MODEL
09/15/1997 – 07/31/1998 FY97: $25,000 Total: $25,000
Prin. Invest.: B D GANAPOL
Tech. Officer: ARC/D L PETERSON
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NCC 3 452 UNIVERSITY OF ARIZONA **1625**
CONSTRUCTING SCIENTIFIC APPLICATIONS FROM HETEROGENEOUS RESOURCES
02/08/1996 – 02/07/1997 FY97: $0 Total: $25,020
Prin. Invest.: R SCHLICTING
Tech. Officer: LERC/G J FOLLEN, LERC/D VANDREI
CASE Category: 22 – COMPUTER SCIENCE

NCC 5 77 UNIVERSITY OF ARIZONA **1626**
INVEST. OF SIGNAL AND IMAGING PROCESSING TECHNIQUE FOR CLOUD DETECTION BY MICRO PULSE LIDARS
08/01/1994 – 01/31/1998 FY97: $0 Total: $43,881
Prin. Invest.: J A REAGAN
Tech. Officer: GSFC/J D SPINHIRNE, GSFC/V S SCOTT
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 8 96 UNIVERSITY OF ARIZONA **1627**
COMPARISON OF STRUCTURE AND SEGREGATION IN ALLOYS
06/07/1996 – 05/31/1998 FY97: $170,000 Total: $290,000
Prin. Invest.: D R POIRIER
Tech. Officer: MSFC/D HUBBARD
CASE Category: 49 – ENGINEERING, OTHER

NGT 10001 UNIVERSITY OF ARIZONA **1628**
ASTRONOMY PRE-SERVICE FOR FUTURE ELEMENTARY SCHOOL TEACHERS
06/04/1993 – 03/31/1996 FY97: -$745 Total: $81,830
Prin. Invest.: L A LEBOFSKY
Tech. Officer: HQ/D V GALLAWAY
CASE Category: 11 – ASTRONOMY

NGT 10035 UNIVERSITY OF ARIZONA **1629**
UTILIZATION OF LOCAL PLANETARY RESOURCES
12/22/1994 – 05/31/1998 FY97: $0 Total: $326,705
Prin. Invest.: K RAMOHILL, J LEWIS
Tech. Officer: HQ/G JOHNSON
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 30173 UNIVERSITY OF ARIZONA **1630**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/24/1993 – 12/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: C V HAYNES, J.R.
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 30181 UNIVERSITY OF ARIZONA **1631**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/27/1993 – 12/30/1997 FY97: $0 Total: $65,500
Prin. Invest.: J RANGER-MOORE
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30215 UNIVERSITY OF ARIZONA **1632**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/24/1993 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: J A REAGAN
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 30239 UNIVERSITY OF ARIZONA **1633**
GLOBAL CHANGE FELLOWSHIP AWARD
09/29/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: P N SLATER
Tech. Officer: HQ/R A SCHIFFER, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30269 UNIVERSITY OF ARIZONA **1634**
GLOBAL CHANGE FELLOWSHIP AWARD
09/29/1994 – 12/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: R C BALES
Tech. Officer: HQ/J S THEON, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30303 UNIVERSITY OF ARIZONA **1635**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/10/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: J W SHUTTLEWORTH
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30325 UNIVERSITY OF ARIZONA **1636**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/31/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: B M HERMAN
Tech. Officer: HQ/R ASCHIFFER, HQ/G ASRAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 30336 UNIVERSITY OF ARIZONA **1637**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/16/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: M YITAYEW
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 40006 UNIVERSITY OF ARIZONA **1638**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
11/29/1989 – 01/31/1998 FY97: $0 Total: $2,655,587
Prin. Invest.: E LEVY
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 50962 UNIVERSITY OF ARIZONA **1639**
NGT-50962/UNIV ARIZONA/GRADUATE STUDENT RESEARCHERS PROGRAM
06/26/1992 – 07/31/1996 FY97: -$2 Total: $65,998
Prin. Invest.: B SANDEL
Tech. Officer: HQ/J ALEXANDER
CASE Category: 11 – ASTRONOMY

NGT 51092 UNIVERSITY OF ARIZONA **1640**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/01/1993 – 06/30/1996 FY97: -$1,962 Total: $44,000
Prin. Invest.: C M TIPTON
Tech. Officer: HQ/R WHITE
CASE Category: 59 – LIFE SCIENCE, OTHER

NGT 51111 UNIVERSITY OF ARIZONA **1641**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/02/1993 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: J REAGAN
Tech. Officer: LARC/E J PRIOR
CASE Category: 45 – ELECTRICAL ENGR

NGT 51122 UNIVERSITY OF ARIZONA **1642**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/02/1993 – 07/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: J C BAYGENTS
Tech. Officer: HQ/D A HOLLAND
CASE Category: 21 – MATHEMATICS

NGT 51127 UNIVERSITY OF ARIZONA **1643**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/23/1993 – 08/14/1997 FY97: $0 Total: $44,000
Prin. Invest.: J I LUNINE
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51139 UNIVERSITY OF ARIZONA **1644**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/25/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: E H LEVY
Tech. Officer: HQ/DHOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51152 UNIVERSITY OF ARIZONA **1645**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/03/1993 – 07/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: C D IMPEY
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51210 UNIVERSITY OF ARIZONA **1646**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/16/1994 – 08/14/1997 FY97: $0 Total: $44,000
Prin. Invest.: R D SCHRIMPF, K F GALLOWAY
Tech. Officer: GSFC/G SOFFEN
CASE Category: 45 – ELECTRICAL ENGR

NGT 51219 UNIVERSITY OF ARIZONA **1647**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/07/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: P N SLATER
Tech. Officer: HQ/A NOVOTNY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 51289 UNIVERSITY OF ARIZONA **1648**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/28/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: W A BOYNTON
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51304 UNIVERSITY OF ARIZONA **1649**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/28/1994 – 07/09/1997 FY97: $0 Total: $44,000
Prin. Invest.: F MELIA
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51305 UNIVERSITY OF ARIZONA **1650**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/06/1994 – 01/31/1998 FY97: $0 Total: $66,000
Prin. Invest.: J COCKE
Tech. Officer: HQ/D GLASCO
CASE Category: 11 – ASTRONOMY

NGT 51306 UNIVERSITY OF ARIZONA **1651**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/06/1994 – 11/04/1996 FY97: –$923 Total: $43,077
Prin. Invest.: G RIEKE, F MELIA
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51324 UNIVERSITY OF ARIZONA **1652**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/06/1994 – 07/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: U FINK
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51327 UNIVERSITY OF ARIZONA **1653**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/19/1994 – 09/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: H J MELOSH
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51328 UNIVERSITY OF ARIZONA **1654**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/19/1994 – 08/14/1997 FY97: $0 Total: $66,000
Prin. Invest.: C WALKER
Tech. Officer: HQ/DHOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51363 UNIVERSITY OF ARIZONA **1655**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/08/1994 – 07/31/1997 FY97: –$10,565 Total: $11,435
Prin. Invest.: C F CHEN
Tech. Officer: HQ/G A LESANE
CASE Category: 46 – MECHANICAL ENGR

NGT 51637 UNIVERSITY OF ARIZONA **1656**
GRAD STUD RES PROG
08/22/1996 – 09/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: F MELIA
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51644 UNIVERSITY OF ARIZONA **1657**
GRAD STUDENT RESEARCH PROGRAM
08/15/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: M DRAKE
Tech. Officer: HQ/D HOLLAND
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 51646 UNIVERSITY OF ARIZONA **1658**
GRAD STUD RES PROG
08/05/1996 – 08/14/1997 FY97: $0 Total: $22,000
Prin. Invest.: J LUNINE
Tech. Officer: HQ/D HOLLAND
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 70403 UNIVERSITY OF ARIZONA **1659**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
09/29/1994 – 07/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: A ORTEGA
Tech. Officer: HQ/D K RUSSELL
CASE Category: 46 – MECHANICAL ENGR

NGT 1 52176 UNIVERSITY OF ARIZONA **1660**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
08/25/1997 – 07/31/1998 FY97: $10,000 Total: $10,000
Prin. Invest.: J A REAGAN, M A RUBIE
Tech. Officer: LARC/C A HOSTETLER, LARC/D M WINKER
CASE Category: 49 – ENGINEERING, OTHER

NGT 2 52224 UNIVERSITY OF ARIZONA **1661**
INVESTIGATION OF TURUBLENCE MECHANISMS IN THE STRA TFORD RAMP BOUNDARY LAYER FOR ... CARY BACHMAN
07/24/1997 – 07/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: H F FASEL, C R BACHMAN
Tech. Officer: ARC/S S DAVIS
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 11 UNIVERSITY OF ARIZONA **1662**
THEORETICAL COMPARISON OF MICHELSON STELLAR INTERFEROMETER AND DILUTE APERTURE TELESCOPE
07/10/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: A MARATHAY
Tech. Officer: GSFC/G A SOFFEN, GSFC/B D SEERY
CASE Category: 42 – ASTRONAUTICAL ENGR

NGT 5 29 UNIVERSITY OF ARIZONA **1663**
PHYSICS OF HEAVY–ION INTERACTIONS IN POWER DEVICES AND ITS APPLICATION TO SINGLE–EVENT GATERUPTURE
07/16/1996 – 08/14/1997 FY97: $0 Total: $22,000
Prin. Invest.: K GALLAWAY
Tech. Officer: GSFC/G SOFFEN
CASE Category: 11 – ASTRONOMY

NGT 5 41 UNIVERSITY OF ARIZONA **1664**
FINAL YEAR OF FUNDING FOR USERC PROGRAM AT UNIV FO RESEARCH CENTER FOR UTILIZATION OF LOCAL PLANETAR
06/19/1997 – 10/31/1997 FY97: $5,439 Total: $5,439
Prin. Invest.: K RAMOHALLI
Tech. Officer: GSFC/R AVANT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30013 UNIVERSITY OF ARIZONA **1665**
A STUDY OF 1993 USA FLOOD MECHANISM ON REGIONAL AN USING CLIMATE MODELS AND REMOTE–SENSING
10/23/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: R E DICKSON
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30051 UNIVERSITY OF ARIZONA **1666**
A NEW SPHERICAL–SHELL RADIATIVE TRANSFER MODEL FOR LIMB SCATTERING RADIANCES
09/06/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: B M HERMAN
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30082 UNIVERSITY OF ARIZONA **1667**
THIRD YEAR FUNDING: "AREA–AVERAGE REPRESENTATION COVERS BASED ON REMOTELY SENSED LAND COVERDATA"
09/11/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J W SHUTTLEWORTH
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30095 UNIVERSITY OF ARIZONA **1668**
FORECASTING CROP YIELD FROM THE CROP SPECIFIC WATE INTEGRATED WITH ARTEMIS SATELLITE DATA AND GIS/RE
09/10/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: M YITAYEW
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40026 UNIVERSITY OF ARIZONA **1669**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA
12/30/1996 – 01/31/1998 FY97: $379,998 Total: $379,998
Prin. Invest.: E H LEVY
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50014 UNIVERSITY OF ARIZONA **1670**
LARGE SCALE MHD ACCRETION ONTO MASSIVE BLACK HOLES FOR NUCLEAR BROAD LINE REGIONS
07/14/1997 – 07/14/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: F MELIA
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50046 UNIVERSITY OF ARIZONA **1671**
ACHROMATIC NULLING BEAM COMBINER FOR A PLANET
07/17/1997 – 08/14/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: M LLOYD–HART
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50111 UNIVERSITY OF ARIZONA **1672**
GRADUATE STUDENT RESEARCHERS PROGRAM – STUDENT: K
09/04/1997 – 08/14/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J LUNINE
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50132 UNIVERSITY OF ARIZONA **1673**
PLANETARY DYNAMOS AND THERMAL EVOLUTION: THE IMPO HEAT PRODUCING ELEMENTS DISSOLVED IN TERRESTRIAL
09/10/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: M J DRAKE
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

ARKANSAS

NAG 8 277 ARKANSAS STATE UNIVERSITY **1674**
JOVE
12/30/1992 – 05/31/1997 FY97: $0 Total: $131,465
Prin. Invest.: B BENNETT, A SUSTICH
Tech. Officer: MSFC/F SIX
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1284 ARKANSAS TECH UNIVERSITY **1675**
FOR RESEARCH "JOVE"
01/21/1997 – 08/31/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: M CONNOR, R NELSON, S JORDAN
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG13 40 HENDRIX COLLEGE **1676**
DETECTION OF METALLIC COMPOUNDS IN ROCKET PLUMES USING ION PROBES
09/05/1996 – 01/02/1998 FY97: $0 Total: $15,000
Prin. Invest.: R W DUNN
Tech. Officer: SSC/W ST. CYR
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 8 276 UNIVERSITY OF ARKANSAS – LITTLE ROCK **1677**
JOVE
01/15/1993 – 11/30/1996 FY97: $0 Total: $107,021
Prin. Invest.: T VISWANATHAN, D C WOLD
Tech. Officer: MSFC/F SIX
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG10 156 UNIVERSITY OF ARKANSAS – LITTLE ROCK **1678**
PHOTOCHEMICALLY AND THERMALLY CROSS–LINKABLE
03/31/1995 – 03/31/1996 FY97: –$4,778 Total: $50,222
Prin. Invest.: T VISWANATHAN
Tech. Officer: KSC/C J BRYAN
CASE Category: 12 – CHEMISTRY

NAG10 181 UNIVERSITY OF ARKANSAS – LITTLE ROCK **1679**
SYNTHESIS & CHARACTERIZATION OF CROSS LINKABLE WATER BORNE POLYCONJUGATED SYSTEMS
12/12/1995 – 07/18/1998 FY97: $100,000 Total: $200,000
Prin. Invest.: T VISWANATHAN
Tech. Officer: KSC/C BRYAN
CASE Category: 12 – CHEMISTRY

NCCW 55 UNIVERSITY OF ARKANSAS – LITTLE ROCK **1680**
THE ARKANSAS PLAN FOR ENCHANCEMENT OF AEROSPACE AND ECONOMIC DEVELOPMENT
08/18/1994 – 12/31/1997 FY97: $0 Total: $1,500,000
Prin. Invest.: G NORTHROP
Tech. Officer: HQ/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51216 UNIVERSITY OF ARKANSAS – LITTLE ROCK **1681**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/19/1994 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: M K HUDSON
Tech. Officer: SSC/A JOYCE
CASE Category: 45 – ELECTRICAL ENGR

NGT 5 40063 UNIVERSITY OF ARKANSAS – LITTLE ROCK **1682**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
03/24/1997 – 02/28/1998 FY97: $205,000 Total: $205,000
Prin. Invest.: G M NORTHROP
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT13 52707 UNIVERSITY OF ARKANSAS – LITTLE ROCK **1683**
A STUDY OF THE APPLICATION OF RAMEN SPECTROSCOPY TO ROCKET DIAGNOSTICS
05/23/1996 – 08/01/1999 FY97: $22,000 Total: $44,000
Prin. Invest.: M K HUDSON
Tech. Officer: SSC/A JOYCE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 4317 UNIV OF ARKANSAS MAIN CAMPUS – FAYETTEVILLE **1684**
NATURAL THERMOLUMINESCENCE OF ANTARCTIC METEORITES
04/09/1997 – 02/28/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: D H BENOIT
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4718 UNIV OF ARKANSAS MAIN CAMPUS – FAYETTEVILLE **1685**
DELIVERING GEOGRAPHIC DECISION SUPPORT TECHNOLOGY ON–LINE ACCESSTO DIGITAL GEODATA PRODUCTS
09/05/1997 – 04/30/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: W LIMP
Tech. Officer: GSFC/A TUYAHOV
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3479 UNIV OF ARKANSAS MAIN CAMPUS – FAYETTEVILLE **1686**
NATURAL THERMOLUMINESCENCE OF ANTARCTIC METEORITES AND RELATED STUDIES
03/27/1993 – 06/30/1997 FY97: $0 Total: $114,691
Prin. Invest.: D SEARS
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3519 UNIV OF ARKANSAS MAIN CAMPUS – FAYETTEVILLE **1687**
CHEMICAL AND PHYSICAL STUDIES OF EXTRATERRESTRIAL MATERIALS
04/09/1993 – 06/30/1997 FY97: $0 Total: $203,734
Prin. Invest.: D SEARS
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 4117 UNIV OF ARKANSAS MAIN CAMPUS – FAYETTEVILLE **1688**
PILOT PROGRAM FOR THE DEVELOPMENT OF CLASSIFICATIN AND ACCURACY ASSESSEMENT METHODS FOR LANDSAT & GI
08/16/1994 – 04/30/1997 FY97: $0 Total: $388,000
Prin. Invest.: W F LIMP
Tech. Officer: HQ/J J GAREGNANI, HQ/A J TUYAHOV
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NCC 2 5026 UNIV OF ARKANSAS MAIN CAMPUS – FAYETTEVILLE **1689**
THRESHOLD CONCENTRATIONS OF MOLECULAR HYDROGEN ALL OWING FOR GROWTH OF METHANOGENIC BACTERIA
01/14/1994 – 01/31/1996 FY97: $0 Total: $20,000
Prin. Invest.: T A KRAL
Tech. Officer: ARC/C P MCKAY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

CALIFORNIA

NAG 1 1780 CALIFORNIA INSTITUTE OF TECHNOLOGY **1690**
NEW NASA RESEARCH GRANT
12/05/1995 – 12/04/1997 FY97: $42,638 Total: $82,958
Prin. Invest.: W G KNAUSS
Tech. Officer: LARC/T S GATES
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1806 CALIFORNIA INSTITUTE OF TECHNOLOGY **1691**
CHEMISTRY AND TRANSPORT IN A MULTI–DIMENSIONAL MODEL
02/07/1996 – 12/31/1997 FY97: $115,000 Total: $225,000
Prin. Invest.: Y L YUNG
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 744 CALIFORNIA INSTITUTE OF TECHNOLOGY **1692**
SUBMILLIMETER SPECTROSCOPY WITH A 500–100 GHZ SIS RECEIVER
12/03/1991 – 01/31/1997 FY97: $0 Total: $832,584
Prin. Invest.: J ZMUIDZINAS
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 1038 CALIFORNIA INSTITUTE OF TECHNOLOGY **1693**
SPACE SCIENCE WORKING GROUP
04/16/1996 – 02/28/1997 FY97: $0 Total: $10,528
Prin. Invest.: J ZMUIDZINAS
Tech. Officer: ARC/E F ERICKSON
CASE Category: 11 – ASTRONOMY

NAG 2 1068 CALIFORNIA INSTITUTE OF TECHNOLOGY **1694**
AIRBORNE SUBMILLIMETER SPECTROSCOPY
07/19/1996 – 01/31/1998 FY97: $0 Total: $100,000
Prin. Invest.: J ZMUIDZINAS
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 1087 CALIFORNIA INSTITUTE OF TECHNOLOGY **1695**
APPLICATION OF DIGITAL PARTICLE IMAGE VELOCIMETRY & THERMOMETRY TO TURBULENT CAVITY FLOW
09/27/1996 – 11/30/1997 FY97: $25,000 Total: $40,000
Prin. Invest.: M GHARIB
Tech. Officer: ARC/Y C CHO
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 1131 CALIFORNIA INSTITUTE OF TECHNOLOGY **1696**
AUTOMISTIC DESIGN & SIMULATIONS OF NANOSCALE MACHI NES & ASSEMBLY
06/11/1997 – 03/31/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: W A GODDARD
Tech. Officer: ARC/C LEVIT, ARC/D A BAILEY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 3 1899 CALIFORNIA INSTITUTE OF TECHNOLOGY **1697**
PRECISE MEASUREMENTS OF THE DSNITY AND CRITICAL PH ENOMNA OF HELIUM NEAR PHASE TRANSITIONS
06/13/1996 – 06/12/2000 FY97: $0 Total: $44,000
Prin. Invest.: N YEH
Tech. Officer: LERC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 5 727 CALIFORNIA INSTITUTE OF TECHNOLOGY **1698**
RESEARCH RELATIVE TO THE CALTECH/IISOTAPE SPECTROMETER–IMP
12/22/1985 – 09/30/1996 FY97: $0 Total: $545,459
Prin. Invest.: E C STONE, R A MELWALDT
Tech. Officer: GSFC/G BULLOCK
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 1458 CALIFORNIA INSTITUTE OF TECHNOLOGY **1699**
LOW-ENERGY GAMMA-RAY EMISSION GALAXTIC OBJECTS
08/23/1990 – 01/31/1998 FY97: $0 Total: $884,352
Prin. Invest.: T A PRINCE, J M GRUNSFELD, P W GORHAM
Tech. Officer: GSFC/J P NORRIS, GSFC/D A KNIFFEN
CASE Category: 11 – ASTRONOMY

NAG 5 1611 CALIFORNIA INSTITUTE OF TECHNOLOGY **1700**
EXTENSION OF THE WIDE FIELD I PLANETARY CAMERA POS T-LAUNCH SCIENCE AND ENGINEERING ACTIVITIES
05/23/1991 – 09/30/1998 FY97: $657,000 Total: $12,647,480
Prin. Invest.: J A WESTPHAL
Tech. Officer: GSFC/S SOBIESKI
CASE Category: 11 – ASTRONOMY

NAG 5 1707 CALIFORNIA INSTITUTE OF TECHNOLOGY **1701**
THE NEAREST AND LEAST LUMINOUS SEYFERT 1 NUCLEUS
07/15/1991 – 01/14/1997 FY97: $0 Total: $10,000
Prin. Invest.: W L SARGENT
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 1985 CALIFORNIA INSTITUTE OF TECHNOLOGY **1702**
THE X-RAY LUMINOSITY OF LOW MASS HYADES STARS
05/28/1992 – 05/31/1996 FY97: $0 Total: $37,265
Prin. Invest.: I N REID
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2090 CALIFORNIA INSTITUTE OF TECHNOLOGY **1703**
CORRELATIVE STUDIES OF SOLAR FLARES
09/02/1992 – 09/14/1996 FY97: $0 Total: $152,334
Prin. Invest.: H ZIRIN, H WANG
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2504 CALIFORNIA INSTITUTE OF TECHNOLOGY **1704**
INVESTIGATION OF HIGH ENERGY GAMMA RAY EMISSION FROM AGN'S. A DEEP EXPOSURE ATHIGH
02/16/1994 – 10/31/1995 FY97: $0 Total: $22,396
Prin. Invest.: R BLANDFORD, C E FICHTEL
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2519 CALIFORNIA INSTITUTE OF TECHNOLOGY **1705**
PROBING THE RELATIVISTIC WIND OF A MILLISECOND PUL SAR
02/21/1994 – 03/14/1998 FY97: $0 Total: $46,082
Prin. Invest.: B R KULKARNI
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2655 CALIFORNIA INSTITUTE OF TECHNOLOGY **1706**
A ROSAT DEEP GALACTIC SURVEY
07/21/1994 – 07/31/1997 FY97: $0 Total: $48,500
Prin. Invest.: S R KULKARNI
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2657 CALIFORNIA INSTITUTE OF TECHNOLOGY **1707**
THE FAR-INFRARED PROPERTIES OF HIGH REDSHIFT QUASA RS AND GLAXIES OBSERVED BY IR
07/21/1994 – 07/31/1996 FY97: $0 Total: $37,000
Prin. Invest.: L ARMUS, L ARMUS
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2756 CALIFORNIA INSTITUTE OF TECHNOLOGY **1708**
PULSARS: ORIGINS AND ENVIRONMENTAL IMPACT
10/14/1994 – 12/31/1997 FY97: $100,000 Total: $313,100
Prin. Invest.: E S PHINNEY
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2761 CALIFORNIA INSTITUTE OF TECHNOLOGY **1709**
CORRELATIVE INVESTIGATION OF NEUTRAL EMISSIONS OF SOLAR FLARES
10/21/1994 – 10/31/1996 FY97: $0 Total: $35,000
Prin. Invest.: H ZURIN
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2768 CALIFORNIA INSTITUTE OF TECHNOLOGY **1710**
ASCA OBSERVATIONS OF OUTBURSTS AND QUIESCENT EMISSION FROM THE BINARY X-RAY PULSAR 0834-430
10/26/1994 – 03/14/1997 FY97: $0 Total: $5,038
Prin. Invest.: L BILDSTEN
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2782 CALIFORNIA INSTITUTE OF TECHNOLOGY **1711**
VARIABILITY OF SOLAR UV IRRADIANCE RELATED TO BRIG HT MAGNETIC FEATURES OBSERVED IN CALL K-LINE
11/07/1994 – 11/14/1997 FY97: $82,604 Total: $236,199
Prin. Invest.: H ZIRIN
Tech. Officer: GSFC/C H JACKMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2911 CALIFORNIA INSTITUTE OF TECHNOLOGY **1712**
IDENTIFYING SGR 1900 + 14, THE THIRD SORT GAMMA REPEATER WITH ROSAT
03/14/1995 – 09/30/1997 FY97: $0 Total: $19,864
Prin. Invest.: S KULKARNI
Tech. Officer: GSFC/R PETRE
CASE Category: 12 – CHEMISTRY

NAG 5 2929 CALIFORNIA INSTITUTE OF TECHNOLOGY **1713**
POSITION MEASUREMENT OF THE ECLIPSING PULSAR OAO.
04/18/1995 – 04/30/1997 FY97: $0 Total: $4,036
Prin. Invest.: L BILDSTEN
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2956 CALIFORNIA INSTITUTE OF TECHNOLOGY **1714**
AN ACCURATE POSITION FOR GX 1+4
06/06/1995 – 12/14/1996 FY97: $0 Total: $3,982
Prin. Invest.: F HARRISON
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2966 CALIFORNIA INSTITUTE OF TECHNOLOGY **1715**
CLUSTER OBSERVATIONS FOR COMBINED X-RAY SUNYEAV- ZEL'DOVICH ESTIMATES OF PECULIAR VELOCITIES ETC...
06/12/1995 - 12/14/1996 FY97: $0 Total: $41,300
Prin. Invest.: A LANGE
Tech. Officer: GSFC/N WHITE
CASE Category: 12 - CHEMISTRY

NAG 5 3119 CALIFORNIA INSTITUTE OF TECHNOLOGY **1716**
TESTING THE ACCRETION PARADIGM WITH THE BATSE PULSAR DATABASE
10/18/1995 - 10/31/1997 FY97: $52,847 Total: $112,376
Prin. Invest.: R W NELSON, T PRINCE
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 - ASTRONOMY

NAG 5 3178 CALIFORNIA INSTITUTE OF TECHNOLOGY **1717**
A SEARCH FOR EGRET/RADIO PULSARS IN THE ETA CARINA REGION
03/06/1996 - 03/14/1997 FY97: $0 Total: $16,536
Prin. Invest.: V M KASPI
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 - ASTRONOMY

NAG 5 3207 CALIFORNIA INSTITUTE OF TECHNOLOGY **1718**
CLUSTER OBSERVATIONS FOR COMBINED X-RAY AND SUNYAE V-ZEL'DOVICH ESTIMATES OF PECULIAR VELOCITIES...
04/16/1996 - 10/31/1997 FY97: $0 Total: $10,560
Prin. Invest.: A LANGE
Tech. Officer: GSFC/R PETRE
CASE Category: 11 - ASTRONOMY

NAG 5 3239 CALIFORNIA INSTITUTE OF TECHNOLOGY **1719**
STUDIES OF PERIODIC AND APERIODIC VARIABILITY IN A CCRETING NEUTRON STAR BINARYSYSTEMS
05/21/1996 - 04/30/1997 FY97: $110,000 Total: $220,000
Prin. Invest.: T A PRINCE
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3296 CALIFORNIA INSTITUTE OF TECHNOLOGY **1720**
MULTI-WAVELENGTH OBSERVATIONS OF THE EXOTIC BINARY LSI + 61 303
07/17/1996 - 01/31/1998 FY97: $0 Total: $5,000
Prin. Invest.: F HARRISON
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 3299 CALIFORNIA INSTITUTE OF TECHNOLOGY **1721**
OBSERVATION OF RADIO-LOUD BL LACERTAE OBJECTS AND SUPERLUMINAL AGN; 2) CORRELATED OBSERVATIONS OF ..
08/09/1996 - 11/14/1997 FY97: $0 Total: $12,000
Prin. Invest.: R C LAMB
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 - ASTRONOMY

NAG 5 3330 CALIFORNIA INSTITUTE OF TECHNOLOGY **1722**
THE ORIGIN AND EVOLUTION OF NEUTRON STARS
08/13/1996 - 04/30/1997 FY97: $0 Total: $85,300
Prin. Invest.: S KULKARNI
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3340 CALIFORNIA INSTITUTE OF TECHNOLOGY **1723**
STUDY OF VERY RAPID PHENOMENA IN SCO X-1; 2) SEARC HES FOR MILLISECOND PULSATIONS IN LOW-MASS . . .
05/02/1996 - 11/01/1997 FY97: $0 Total: $49,023
Prin. Invest.: B VAUGHAN
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 3465 CALIFORNIA INSTITUTE OF TECHNOLOGY **1724**
BOLOMETRIC ARRAY DETECTORS FOR SPACEBORNE ASTRONOM
10/30/1996 - 08/31/1997 FY97: $115,382 Total: $115,382
Prin. Invest.: A E LANGE
Tech. Officer: GSFC/D HOLLAND
CASE Category: 11 - ASTRONOMY

NAG 5 3466 CALIFORNIA INSTITUTE OF TECHNOLOGY **1725**
INNOVATIVE RESEARCH PROGRAM. SILICON RADIATION DET
01/31/1997 - 07/31/1997 FY97: $143,226 Total: $143,226
Prin. Invest.: R A MEWALDT
Tech. Officer: GSFC/D HOLLAND
CASE Category: 12 - CHEMISTRY

NAG 5 3560 CALIFORNIA INSTITUTE OF TECHNOLOGY **1726**
ISO BLOCK GRANT SUPPORT
01/15/1997 - 12/31/1998 FY97: $514,487 Total: $514,487
Prin. Invest.: B T SOIFER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3644 CALIFORNIA INSTITUTE OF TECHNOLOGY **1727**
IMPACT AND COLLISIONAL PROCESSES IN THE SOLAR SYST
02/12/1997 - 12/31/1997 FY97: $222,000 Total: $222,000
Prin. Invest.: T J AHRENS
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 3733 CALIFORNIA INSTITUTE OF TECHNOLOGY **1728**
SPECTROSCOPIC STUDIES OF PRE-BIOTIC CARBON CHEMIST
02/25/1997 - 12/31/1997 FY97: $50,000 Total: $50,000
Prin. Invest.: P A BLAKE
Tech. Officer: GSFC/M A MEYER
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 5 3765 CALIFORNIA INSTITUTE OF TECHNOLOGY **1729**
PLANETARY ORIGIN, EVOLUTION AND STRUCTURE
02/11/1997 - 09/30/1997 FY97: $86,670 Total: $86,670
Prin. Invest.: D J STEVENSON
Tech. Officer: GSFC/P G RODGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 3792 CALIFORNIA INSTITUTE OF TECHNOLOGY **1730**
RADAR AND MICROWAVE ASTRONOMY
03/12/1997 - 11/30/1997 FY97: $105,000 Total: $105,000
Prin. Invest.: D O MUHLEMAN
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 - ASTRONOMY

NAG 5 3821 CALIFORNIA INSTITUTE OF TECHNOLOGY **1731**
VERY HIGH GAMMA-RAY STUDIES-COMPTON CYCLE 6
01/14/1997 – 01/14/1998 FY97: $8,000 Total: $8,000
Prin. Invest.: R C LAMB
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3834 CALIFORNIA INSTITUTE OF TECHNOLOGY **1732**
QUASAR EVOLUTION AND GRAVITATIONAL LENSES
02/10/1997 – 02/14/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: T KUNDIC
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3882 CALIFORNIA INSTITUTE OF TECHNOLOGY **1733**
MEASUREMENTS OF THE SOLAR CORONA AND MAGNETIC FIEL MICRO-WAVE SPECTROSCOPY
02/27/1997 – 11/30/1997 FY97: $85,000 Total: $85,000
Prin. Invest.: D E GARY
Tech. Officer: GSFC/W J WAGNER
CASE Category: 11 – ASTRONOMY

NAG 5 3911 CALIFORNIA INSTITUTE OF TECHNOLOGY **1734**
MOLECULAR BEAM STUDIES OF STRATOSPHERIC PHOTOCHEMI
02/26/1997 – 12/31/1997 FY97: $71,735 Total: $71,735
Prin. Invest.: D OKUMURA
Tech. Officer: GSFC/M J KURYLO
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3924 CALIFORNIA INSTITUTE OF TECHNOLOGY **1735**
STUDIES OF ACCRETING BINARY PULSARS WITH BATSE
02/19/1997 – 02/14/1998 FY97: $44,337 Total: $44,337
Prin. Invest.: T A PRINCE
Tech. Officer: GSFC/N P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 4022 CALIFORNIA INSTITUTE OF TECHNOLOGY **1736**
PALEOENVIRONMENT ON MARS
03/25/1997 – 09/30/1997 FY97: $45,000 Total: $45,000
Prin. Invest.: D YUNG
Tech. Officer: GSFC/M A MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 4076 CALIFORNIA INSTITUTE OF TECHNOLOGY **1737**
GEOCHEMICAL AND ISOTOPIC INVESTIGATIONS OF LUNAR A
03/26/1997 – 11/30/1997 FY97: $803,000 Total: $803,000
Prin. Invest.: D J WASSERBURG
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 – CHEMISTRY

NAG 5 4079 CALIFORNIA INSTITUTE OF TECHNOLOGY **1738**
WIDE-FIELD IMAGING OF GALACTIC HALOS WITH A NEAR-I ELESCOPE
05/06/1997 – 09/30/1997 FY97: $154,090 Total: $154,090
Prin. Invest.: P E LANGE
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 4081 CALIFORNIA INSTITUTE OF TECHNOLOGY **1739**
BALLOON-BORNE OBSERVATIONS OF THE ANISOTROPY OF TH KGROUND ON ANGULAR SCALES OF0.2 TO 40 DEGREES
05/06/1997 – 12/31/1997 FY97: $149,032 Total: $149,032
Prin. Invest.: P E LANGE
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 4083 CALIFORNIA INSTITUTE OF TECHNOLOGY **1740**
DEVELOPMENT AND APPLICATION OF THE ION MICROPROBE ERRES-TRIAL MATERIAS
03/10/1997 – 11/14/1997 FY97: $370,000 Total: $370,000
Prin. Invest.: D J WASSERBURG
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 – CHEMISTRY

NAG 5 4093 CALIFORNIA INSTITUTE OF TECHNOLOGY **1741**
RESEARCH IN GRAVITATION ASTROPHYSICS
03/10/1997 – 12/31/1997 FY97: $28,000 Total: $28,000
Prin. Invest.: P LINDBLOM
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 4097 CALIFORNIA INSTITUTE OF TECHNOLOGY **1742**
NOVEL, COMPACT UV/VIS & VUV COHERENT LIGHT SOURCES SPECTROS-COPY OF POTENTIAL DIB CARRIERS
03/10/1997 – 03/14/1998 FY97: $75,000 Total: $75,000
Prin. Invest.: P A BLAKE
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 4191 CALIFORNIA INSTITUTE OF TECHNOLOGY **1743**
DYNAMICS OF PLANETARY ATMOSPHERES
06/27/1997 – 11/30/1997 FY97: $90,000 Total: $90,000
Prin. Invest.: D P INGERSOLL
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4196 CALIFORNIA INSTITUTE OF TECHNOLOGY **1744**
DEVELOPMENT OF A SUBMILLIMETER-WAVELENGTH IMMERSIO
03/17/1997 – 02/28/1998 FY97: $85,183 Total: $85,183
Prin. Invest.: D SERABYN
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 4200 CALIFORNIA INSTITUTE OF TECHNOLOGY **1745**
SUBMILLIMETER SPECTROSCOPY OF PLANETARY ATMOSPHERE
03/15/1997 – 02/28/1998 FY97: $44,566 Total: $44,566
Prin. Invest.: D SERABYN
Tech. Officer: GSFC/W HUEBNER
CASE Category: 11 – ASTRONOMY

NAG 5 4203 CALIFORNIA INSTITUTE OF TECHNOLOGY **1746**
A DISTRIBUTED OUT-OF-CORE TOOL FOR SPATIAL AND TEM HALOS FROM COSMOLOGICAL N-BODY SIMULATION DATA
03/17/1997 – 02/28/1998 FY97: $125,000 Total: $125,000
Prin. Invest.: D L STERLING
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 4206 CALIFORNIA INSTITUTE OF TECHNOLOGY **1747**
IMPACT CRATERING CALCULATIONS
03/15/1997 – 09/30/1998 FY97: $78,000 Total: $78,000
Prin. Invest.: T J AHRENS
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4307 CALIFORNIA INSTITUTE OF TECHNOLOGY **1748**
EXPERIMENTAL AND MODELING STUDIES OF THE CHEMISTRY
04/01/1997 – 03/31/1998 FY97: $25,000 Total: $25,000
Prin. Invest.: D S BURNETT
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4318 CALIFORNIA INSTITUTE OF TECHNOLOGY **1749**
EXPERIMENTAL STUDIES OF PHASE EQUILIBRIA OF METEOR INTERIORS
04/04/1997 – 02/28/1998 FY97: $141,000 Total: $141,000
Prin. Invest.: D M STOLPER
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4319 CALIFORNIA INSTITUTE OF TECHNOLOGY **1750**
EXPERIMENTAL AND ANALYTICAL STUDIES OF SOLAR SYSTE
04/04/1997 – 01/31/1998 FY97: $115,000 Total: $115,000
Prin. Invest.: D S BURNETT
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4347 CALIFORNIA INSTITUTE OF TECHNOLOGY **1751**
MICRO–PENETRATOR SEARCH FOR LAKE DEPOSITED MINERAL
04/14/1997 – 03/31/1999 FY97: $20,000 Total: $20,000
Prin. Invest.: D C MURRAY
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4351 CALIFORNIA INSTITUTE OF TECHNOLOGY **1752**
LOW–FREQUENCY GRAVITATIONAL–WAVE SOURCES
04/14/1997 – 12/31/1997 FY97: $40,000 Total: $40,000
Prin. Invest.: D S THORNE
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 4378 CALIFORNIA INSTITUTE OF TECHNOLOGY **1753**
MILLISECOND PULSARS AND PLANETARY SYSTEMS
04/24/1997 – 09/30/1997 FY97: $50,000 Total: $50,000
Prin. Invest.: D R ULKARNI
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4383 CALIFORNIA INSTITUTE OF TECHNOLOGY **1754**
A LABORATORY AND OBSERVATIONAL STUDY OF THE CHEMIC STELLAR NEBULAE
05/06/1997 – 02/28/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: P A BLAKE
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4437 CALIFORNIA INSTITUTE OF TECHNOLOGY **1755**
PARTICIPATION OF D.O. MUHLEMAN AS A CO–INVESTIGATO OBSERVER LASER ALTIMETER (MOLA) TEAM
04/28/1997 – 12/31/1997 FY97: $54,914 Total: $54,914
Prin. Invest.: D O MUHLEMAN *Prin. Invest.:* NONE
Tech. Officer: GSFC/D E SMITH
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 4599 CALIFORNIA INSTITUTE OF TECHNOLOGY **1756**
MILLIMETER INTERFEROMETRY OF PROTO–PLANETARY DISKS
06/06/1997 – 03/31/1998 FY97: $99,914 Total: $99,914
Prin. Invest.: D I SARGENT
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4611 CALIFORNIA INSTITUTE OF TECHNOLOGY **1757**
MARS 96 PARTICIPATING SCIENTIST AND MARS OXIDANT
05/20/1997 – 12/31/1997 FY97: $19,999 Total: $19,999
Prin. Invest.: D C MURRAY
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4614 CALIFORNIA INSTITUTE OF TECHNOLOGY **1758**
ANALYSIS OF SYNTHETIC APERATURE RADAR IMAGES OF MA
05/19/1997 – 02/28/1998 FY97: $52,979 Total: $52,979
Prin. Invest.: D O MUHLEMAN
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4627 CALIFORNIA INSTITUTE OF TECHNOLOGY **1759**
LONG–TERM MONITORING OF THE UNIQUE BLACK–HOLE CAND
05/21/1997 – 05/31/1998 FY97: $12,631 Total: $12,631
Prin. Invest.: B A VAUGHAN
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4657 CALIFORNIA INSTITUTE OF TECHNOLOGY **1760**
CHEMISTRY AND DYNAMICS OF THE VENUS MESOSPHERE AND
06/05/1997 – 08/31/1997 FY97: $20,000 Total: $20,000
Prin. Invest.: D YUNG
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 4692 CALIFORNIA INSTITUTE OF TECHNOLOGY **1761**
LABORATORY STUDIES OF THE PHOTOPHYSICS AND PHOTOCH HS AND PAH CATIONS
06/20/1997 – 06/30/1998 FY97: $57,000 Total: $57,000
Prin. Invest.: P A BLAKE
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 4715 CALIFORNIA INSTITUTE OF TECHNOLOGY **1762**
ION MICROPROBE MEASUREMENTS OF C IN METAL IN PRIMI APPROACH TO CONSTRAINING C:ORATIOS IN NEBULAR EN
06/23/1997 – 04/30/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: D M STOLPER
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4773 CALIFORNIA INSTITUTE OF TECHNOLOGY **1763**
APPLICATION OF STABLE ISOTOPE MEASUREMENTS TO THE D HISTORY OF METEORITES
06/05/1997 – 05/31/1998 FY97: $79,944 Total: $79,944
Prin. Invest.: D EPSTEIN
Tech. Officer: GSFC/D F NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4890 CALIFORNIA INSTITUTE OF TECHNOLOGY **1764**
QUASI-OPTICAL SIS MIXER DEVELOPMENT
07/08/1997 – 03/31/1998 FY97: $180,966 Total: $180,966
Prin. Invest.: D S ZMUIDZINAS
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 5052 CALIFORNIA INSTITUTE OF TECHNOLOGY **1765**
GLOBAL MAPPING OF THE INTERSTELLAR MEDIUM IN THE FAR-ULTRAVIOLET
01/24/1996 – 12/31/1997 FY97: $360,000 Total: $676,089
Prin. Invest.: C MARTIN
Tech. Officer: GSFC/R H PLESS
CASE Category: 11 – ASTRONOMY

NAG 5 5067 CALIFORNIA INSTITUTE OF TECHNOLOGY **1766**
PROGRAM TO STUDY BE-10 AND OTHER LIGHT ISOTOPES IN THE COSMIC RADIATION
05/03/1996 – 12/31/1997 FY97: $392,462 Total: $668,462
Prin. Invest.: R A MEWALDT, E C STONE
Tech. Officer: GSFC/H C NEDDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5128 CALIFORNIA INSTITUTE OF TECHNOLOGY **1767**
HIGH ENERGY FOCUSSING TELESCOPE (HEFT)
06/19/1997 – 12/31/1997 FY97: $442,000 Total: $442,000
Prin. Invest.: J GRINDLEY
Tech. Officer: GSFC/H NEEDLEMAN
CASE Category: 11 – ASTRONOMY

NAG 5 6071 CALIFORNIA INSTITUTE OF TECHNOLOGY **1768**
HIGH RESOLUTION IMAGING OF SGR 1806-20
07/28/1997 – 06/30/1998 FY97: $7,500 Total: $7,500
Prin. Invest.: S R KULKARNI
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 6173 CALIFORNIA INSTITUTE OF TECHNOLOGY **1769**
PRECISION SOLAR DISK PHOTOMETRY — A TOOL FOR UNDE HE SUN'S LUMINOSITY
08/26/1997 – 05/31/1998 FY97: $44,950 Total: $44,950
Prin. Invest.: D G LIBBRECHT
Tech. Officer: GSFC/W J WAGNER
CASE Category: 11 – ASTRONOMY

NAG 5 6225 CALIFORNIA INSTITUTE OF TECHNOLOGY **1770**
PALEOMAGNETIC AND ROCK CONSTRAINTS ON THE THERMAL METEORITE ALH84001
08/25/1997 – 07/31/1998 FY97: $65,000 Total: $65,000
Prin. Invest.: J L KIRSCHVINK
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 6263 CALIFORNIA INSTITUTE OF TECHNOLOGY **1771**
PHOTOCHEMICAL STUDIES OF CHEMISTRY IN OUTER SOLAR
08/21/1997 – 06/30/1998 FY97: $75,000 Total: $75,000
Prin. Invest.: D L YUNG
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 1182 CALIFORNIA INSTITUTE OF TECHNOLOGY **1772**
A/C CALORIMETRY AND THERMOPHYSICAL PROPERTIES OF BULK GLASS METALLIC LIQUIDS
11/09/1995 – 10/31/1997 FY97: $185,000 Total: $360,000
Prin. Invest.: W JOHNSON
Tech. Officer: MSFC/T DCLOACH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1237 CALIFORNIA INSTITUTE OF TECHNOLOGY **1773**
DISPERSION MICROSTRUCTURE AND RHEOBGY IN CERAMICS PROCESSING
04/22/1996 – 04/21/1998 FY97: $37,500 Total: $112,500
Prin. Invest.: D F BRADY
Tech. Officer: MSFC/C R TALLEY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 9 861 CALIFORNIA INSTITUTE OF TECHNOLOGY **1774**
SUESS UREY DISCOVERY MISSION
02/22/1996 – 05/24/1998 FY97: $0 Total: $69,000
Prin. Invest.: D S BARNETT
Tech. Officer: JSC/E STANSBERY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 107 CALIFORNIA INSTITUTE OF TECHNOLOGY **1775**
ONOMY
11/01/1980 – 09/30/1997 FY97: $0 Total: $2,091,148
Prin. Invest.: T G PHILLIPS
Tech. Officer: HQ/F C GILLETT, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 185 CALIFORNIA INSTITUTE OF TECHNOLOGY **1776**
HIGH PRESSURE COSMOCHEMISTRY APPLIED TO MAJOR PLANETARY
04/01/1981 – 09/30/1996 FY97: $0 Total: $1,157,618
Prin. Invest.: D J STEVENSON
Tech. Officer: HQ/J UNDERWOOD, HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1478 CALIFORNIA INSTITUTE OF TECHNOLOGY **1777**
CO-INVESTIGATOR SUPPORT ON INFRARED SPACE OBSERV.
11/01/1988 – 06/30/1997 FY97: $0 Total: $413,462
Prin. Invest.: A I SARGENT
Tech. Officer: HQ/G S LEVY
CASE Category: 11 – ASTRONOMY

NAGW 1499 CALIFORNIA INSTITUTE OF TECHNOLOGY **1778**
SYNTHETIC APERTIVE PLANETARY RADAR ASTRONOMY USING THE VERY
11/17/1988 – 10/31/1996 FY97: $0 Total: $247,000
Prin. Invest.: D O MUHLEMAN
Tech. Officer: HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NAGW 1509 CALIFORNIA INSTITUTE OF TECHNOLOGY **1779**
PHOTOCHEMICAL STUDIES OF CHEMISTRY
11/17/1988 – 12/31/1997 FY97: $0 Total: $630,495
Prin. Invest.: Y L YUNG
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAGW 1919 CALIFORNIA INSTITUTE OF TECHNOLOGY **1780**
HIGH ENERGY ASTRODHYSICS GAMMA-RAY ASTRONOMY RESEA RCH AND ANALYSIS PROGRAM
02/20/1990 – 12/31/1997 FY97: $0 Total: $5,645,201
Prin. Invest.: E C STONE, T A PRINCE
Tech. Officer: HQ/W V JONES, HQ/L J KALUZIENSKI
CASE Category: 11 – ASTRONOMY

NAGW 1941 CALIFORNIA INSTITUTE OF TECHNOLOGY **1781**
IMPACT AND COLLISIONAL PROCESSES IN THE SOLAR SYST EM
02/20/1990 – 09/30/1996 FY97: $0 Total: $1,396,600
Prin. Invest.: T J AHRENS
Tech. Officer: HQ/T A MAXWELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1953 CALIFORNIA INSTITUTE OF TECHNOLOGY **1782**
NAGW-1953/CALIF INSTITUTE OF TECHNOLOGY/IMPACT CRATERING CALCULATIONS
01/03/1990 – 09/30/1996 FY97: $0 Total: $548,019
Prin. Invest.: T J AHRENS
Tech. Officer: HQ/T A MAXWELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1955 CALIFORNIA INSTITUTE OF TECHNOLOGY **1783**
NAGW-1955/LASER SPECTROSCOPIC STUDIES OF CARBONACE OUS CLUSTERS AND ULTRAFINE PARTICLES
04/27/1990 – 12/31/1996 FY97: $0 Total: $251,125
Prin. Invest.: G A BLAKE
Tech. Officer: HQ/J D RUMMEL
CASE Category: 12 – CHEMISTRY

NAGW 1956 CALIFORNIA INSTITUTE OF TECHNOLOGY **1784**
NAGW-1956/CALIF INSTITUTE OF TECHNOLOGY/DYNAMICS OF PLANETARY ATMOSPHERES
03/16/1990 – 11/30/1996 FY97: $0 Total: $659,750
Prin. Invest.: A P INGERSOLL
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAGW 1972 CALIFORNIA INSTITUTE OF TECHNOLOGY **1785**
RESEARCH IN SOLAR MAGNETISM & SOLAR ACTIVITY
02/15/1990 – 05/31/1998 FY97: $0 Total: $2,272,805
Prin. Invest.: H ZIRIN
Tech. Officer: HQ/J D BOHLIN, HQ/S KANE
CASE Category: 13 – PHYSICS

NAGW 2297 CALIFORNIA INSTITUTE OF TECHNOLOGY **1786**
A LABORATORY AND OBSERVATIONAL STUDY OF THE CHEMIC AL EVOLUTION OF PROTOSTELLARNEBULAE
05/21/1991 – 02/28/1997 FY97: $0 Total: $180,000
Prin. Invest.: G A BLAKE
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 2439 CALIFORNIA INSTITUTE OF TECHNOLOGY **1787**
COMETARY NUCLEUS CORE SAMPLING
04/29/1991 – 01/31/1997 FY97: $0 Total: $493,131
Prin. Invest.: T J AHRENS
Tech. Officer: HQ/W L QUAIDE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 2491 CALIFORNIA INSTITUTE OF TECHNOLOGY **1788**
MARS 94 PARTICIPATING SCIENTIST PROGRAM
06/13/1991 – 12/31/1996 FY97: $0 Total: $240,000
Prin. Invest.: B MURRAY
Tech. Officer: HQ/J BOYCE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 2813 CALIFORNIA INSTITUTE OF TECHNOLOGY **1789**
A LABORATORY AND ASTROPHYSICAL STUDY OF DRIVEN INF RARED EMISSION FROM PAH AND PAH CLUSTERS
01/02/1992 – 11/30/1996 FY97: $0 Total: $209,500
Prin. Invest.: G A BLAKE
Tech. Officer: HQ/L J CAROFF
CASE Category: 11 – ASTRONOMY

NAGW 3011 CALIFORNIA INSTITUTE OF TECHNOLOGY **1790**
ANALYSIS OF SYNTHETIC APERTURE RADAR IMAGES OF MAR S, VENUS AND MERCURY
03/20/1992 – 02/28/1997 FY97: $0 Total: $201,000
Prin. Invest.: D O MUHLEMAN
Tech. Officer: HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3012 CALIFORNIA INSTITUTE OF TECHNOLOGY **1791**
DETECTION AND INTERACTIONS OF ULTRA HEAVY NUCLEI A ND COSMIC RAY PROPAGATION
03/20/1992 – 02/28/1996 FY97: $0 Total: $80,218
Prin. Invest.: E C STONE
Tech. Officer: HQ/W V JONES, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 3040 CALIFORNIA INSTITUTE OF TECHNOLOGY **1792**
ISOTOPIC, CHEMICAL AND MORPHOLOGICAL STUDY OF INTE RSTELLAR GRAINS PRESERVED INMETEORITES
04/17/1992 – 04/30/1997 FY97: $0 Total: $350,000
Prin. Invest.: G J WASSERBURG*Prin. Invest.:* NONE
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3207 CALIFORNIA INSTITUTE OF TECHNOLOGY **1793**
MILLISECOND PULSARS AND PLANETARY SYSTEMS
09/30/1992 – 09/30/1997 FY97: $0 Total: $205,010
Prin. Invest.: S R KULKARNI
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3253 CALIFORNIA INSTITUTE OF TECHNOLOGY **1794**
NAGW-3253/CALTECH/THE ORIGINA AND EVOLUTION OF NEU TRON STARS
11/09/1992 – 04/30/1997 FY97: $0 Total: $292,402
Prin. Invest.: S KULKARNI
Tech. Officer: HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 3297 CALIFORNIA INSTITUTE OF TECHNOLOGY **1795**
NAGW-3297/CALTECH/DEVELOPMENT AND APPLICATION OF T HE ION MICROPROBE FOR ANALYSIS OF EXTRATERRESTRIA
12/10/1992 – 11/14/1997 FY97: $285,000 Total: $1,486,000
Prin. Invest.: G J WASSERBURG
Tech. Officer: HQ/G C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3337 CALIFORNIA INSTITUTE OF TECHNOLOGY **1796**
NAGW-3337/CA INST. TECHNOLOGY/GEOCHEMICAL & ISOTOP IC INVESTIGATIONS OF LUNAR &PLANETARY MATERIALS
01/26/1993 – 10/31/1996 FY97: $703,100 Total: $3,262,400
Prin. Invest.: G J WASSERBURG
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3533 CALIFORNIA INSTITUTE OF TECHNOLOGY **1797**
EXPERIMENTAL STUDIES OF PHASE EQUILIBRIA OF METEOR ITES AND PLANETARY INTERIORS
04/29/1993 – 02/28/1997 FY97: $0 Total: $588,577
Prin. Invest.: E STOLPER
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3534 CALIFORNIA INSTITUTE OF TECHNOLOGY **1798**
NAGW-3534/CALTECH/IGENEOUS ORIGINS FOR THE SODIUM CLOUD OF IO
04/21/1993 – 04/30/1997 FY97: $0 Total: $166,547
Prin. Invest.: D S BURNETT
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3592 CALIFORNIA INSTITUTE OF TECHNOLOGY **1799**
EXPER. AND ANAL. STUD. OF SOLAR SYSTEM CHEMISTRY
05/14/1993 – 01/31/1998 FY97: $0 Total: $470,454
Prin. Invest.: D S BURNETT
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3883 CALIFORNIA INSTITUTE OF TECHNOLOGY **1800**
NAGW-3883/B CALIF. INST. OF TECH. "APPL. OF STABLE ISOT. MEASUREM. TO THE STUDY OF THE ORIGIN.."
03/08/1994 – 09/30/1997 FY97: $0 Total: $318,102
Prin. Invest.: S EPSTEIN
Tech. Officer: HQ/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3893 CALIFORNIA INSTITUTE OF TECHNOLOGY **1801**
MOLECULAR BEAM STUDIES OF STRATOSPHERIC PHOTOCHEMI STRY
03/16/1994 – 12/31/1996 FY97: $0 Total: $202,811
Prin. Invest.: M OKUMARA
Tech. Officer: HQ/M J KURYLO, HQ/R F HAMPSON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3994 CALIFORNIA INSTITUTE OF TECHNOLOGY **1802**
STUDIES OF IMAGING TECHNIQUES FOR HIGH-RESOLUTION IMAGING OF SOLAR HARD X-RAYS AND GAMMA-RAYS
06/07/1994 – 12/31/1997 FY97: $0 Total: $140,426
Prin. Invest.: G J HURFORD
Tech. Officer: HQ/W J WAGNER, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4026 CALIFORNIA INSTITUTE OF TECHNOLOGY **1803**
ION MICROPROBE MEASUREMENTS OF C IN PRIMITIVE METE ORITES
05/26/1994 – 04/30/1997 FY97: $0 Total: $126,906
Prin. Invest.: E STOLPER
Tech. Officer: HQ/P ROGERS
CASE Category: 47 – METAL & MATERIALS ENGR

NAGW 4030 CALIFORNIA INSTITUTE OF TECHNOLOGY **1804**
MILLIMETER INTERFEROMETRY OF PROTO-PLANETARY DISKS
06/03/1994 – 03/31/1998 FY97: $0 Total: $422,033
Prin. Invest.: A SARGENT
Tech. Officer: HQ/P ROGERS
CASE Category: 11 – ASTRONOMY

NAGW 4058 CALIFORNIA INSTITUTE OF TECHNOLOGY **1805**
"PRECISION SOLAR DISK PHOTOMETRY- A TOOL FOR UNDERSTANDING CHANGES IN THE SUN'SLUMINOSITY"
06/17/1994 – 04/30/1997 FY97: $0 Total: $106,248
Prin. Invest.: K G LIBBRECHT*Prin. Invest.:* NONE
Tech. Officer: HQ/W J WAGNER, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4182 CALIFORNIA INSTITUTE OF TECHNOLOGY **1806**
INSTRUMENTS FOR THE DISCOVERY SOLAR WIND SAMPLE RETURN MISSION
10/26/1994 – 06/30/1997 FY97: $0 Total: $395,000
Prin. Invest.: D S BURNETT, NONE
Tech. Officer: HQ/T KOSTIUK
CASE Category: 11 – ASTRONOMY

NAGW 4193 CALIFORNIA INSTITUTE OF TECHNOLOGY **1807**
MILLIMETER APERTURE SYNTHESIS POLARIMETRY AND THE FORMATION AND EVOLUTION OF PROTOPLANETARY DISK
11/04/1994 – 09/30/1996 FY97: $0 Total: $124,078
Prin. Invest.: J E CARLSTROM
Tech. Officer: HQ/P ROGERS
CASE Category: 11 – ASTRONOMY

NAGW 4268 CALIFORNIA INSTITUTE OF TECHNOLOGY **1808**
LOW-FREQUENCY GRAVITATIONAL-WAVE SOURCES AND THEIR IMPLICATIONS FOR FUTURE NASA MISSIONS
01/25/1995 – 12/31/1997 FY97: $0 Total: $80,000
Prin. Invest.: K S THORNE
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 4562 CALIFORNIA INSTITUTE OF TECHNOLOGY **1809**
PLANETARY RADAR ASTRONOMY USING THE VERY LARGE ARRAY
06/06/1995 – 07/31/1997 FY97: $0 Total: $210,000
Prin. Invest.: D MUHLEMAN
Tech. Officer: HQ/J RAHE
CASE Category: 11 – ASTRONOMY

NAGW 4563 CALIFORNIA INSTITUTE OF TECHNOLOGY **1810**
MEASUREMENTS OF THE SOLAR CORONA AND MAGNETIC FIELDS USING IMAGING MICROWAVE SPECTROSCOPY
06/06/1995 – 05/31/1997 FY97: $0 Total: $161,908
Prin. Invest.: D E GARY
Tech. Officer: HQ/W J WAGNER, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4623 CALIFORNIA INSTITUTE OF TECHNOLOGY **1811**
SPACE-BORNE INFRARED ASTRONOMY
08/11/1995 – 05/31/1996 FY97: $0 Total: $250,000
Prin. Invest.: A E LANGE
Tech. Officer: HQ/L J CAROFF, HQ/L J CAROFF
CASE Category: 11 – ASTRONOMY

NAGW 4666 CALIFORNIA INSTITUTE OF TECHNOLOGY **1812**
ADVANCED SILICON RADIATION DETECTORS FOR SPACE SCIENCE
09/22/1995 – 07/31/1998 FY97: $0 Total: $150,065
Prin. Invest.: R A MEWALDT
Tech. Officer: HQ/D A HOLLAND, HQ/J H BREDEKAMP
CASE Category: 12 – CHEMISTRY

NAGW 4752 CALIFORNIA INSTITUTE OF TECHNOLOGY **1813**
NAGW-4752/CA INSTITUTE OF TECHNOLOGY/SUPPORT OF THE SPACE PHYSICS DATA SYSTEM
09/20/1995 – 05/31/1996 FY97: $0 Total: $8,001
Prin. Invest.: D GARRAD
Tech. Officer: HQ/J WILLET
CASE Category: 13 – PHYSICS

NAGW 4754 CALIFORNIA INSTITUTE OF TECHNOLOGY **1814**
BOLOMETRIC ARRAY DETECTORS FOR SPACE-BORNE ASTRONO MY
09/16/1995 – 02/28/1997 FY97: $0 Total: $115,146
Prin. Invest.: A E LANGE
Tech. Officer: HQ/D A HOLLAND, HQ/J H BREDEKAMP
CASE Category: 11 – ASTRONOMY

NAGW 4870 CALIFORNIA INSTITUTE OF TECHNOLOGY **1815**
LONG DURATION BALLOON BORNE OBSERVATIONS
12/07/1995 – 12/31/1996 FY97: $0 Total: $200,000
Prin. Invest.: A E LANGE
Tech. Officer: HQ/L J CAROFF, HQ/M D BICAY
CASE Category: 11 – ASTRONOMY

NAGW 4945 CALIFORNIA INSTITUTE OF TECHNOLOGY **1816**
SUBMILLIMETER SPECTROSCOPY OF PLANETARY ATMOSPHERE S
02/13/1996 – 02/28/1997 FY97: $0 Total: $44,704
Prin. Invest.: E SERABYN
Tech. Officer: HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 5096 CALIFORNIA INSTITUTE OF TECHNOLOGY **1817**
ROCORD OF ECTRATERRESTRIAL HE FALLOUT
06/24/1996 – 06/30/1997 FY97: $0 Total: $49,974
Prin. Invest.: K FARLEY
Tech. Officer: HQ/H BRINTON, HQ/J RAHE
CASE Category: 11 – ASTRONOMY

NAGW 5167 CALIFORNIA INSTITUTE OF TECHNOLOGY **1818**
MARS 96 LONG WAVELENGTH TEAM PARTICIPATION
08/23/1996 – 06/30/1997 FY97: $0 Total: $25,000
Prin. Invest.: D O MUHLEMAN
Tech. Officer: HQ/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAS 3 27263 CALIFORNIA INSTITUTE OF TECHNOLOGY **1819**
SOLUTE NUCLEATION & GROWTH IN SUPERCRITICAL FLUID MIXTURES
08/18/1994 – 08/17/1997 FY97: $65,283 Total: $174,958
Prin. Invest.: G T SMEDLEY, G WILEMSKI
Tech. Officer: LERC/G A ZIMMERK
CASE Category: 43 – CHEMICAL ENGR

NAS 5 31348 CALIFORNIA INSTITUTE OF TECHNOLOGY **1820**
APPLIED INFORMATION STUDY
06/19/1991 – 08/25/1997 FY97: -$340 Total: $54,660
Prin. Invest.: S DJORGOVSKI
Tech. Officer: GSFC/H BURRITT, GSFC/J BREDEKAMP
CASE Category: 22 – COMPUTER SCIENCE

NAS 5 32626 CALIFORNIA INSTITUTE OF TECHNOLOGY **1821**
PHASE C/D DESIGN & DEVELOPMENT OF THE ADVANCED COMPOSITION EXPLORER (ACE) SCIENCE PAYLOAD
01/03/1994 – 02/15/1998 FY97: $3,750,000 Total: $37,258,660
Prin. Invest.: E STONE
Tech. Officer: GSFC/J LAUDADIO
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAS 5 32642 CALIFORNIA INSTITUTE OF TECHNOLOGY **1822**
HIGH RESOLUTION IRAS MAPS OF THE GALAXY AT 60 & 100 MICRONS
09/20/1994 – 10/19/1997 FY97: $0 Total: $232,606
Prin. Invest.: T A PRINCE
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NCC 2 954 CALIFORNIA INSTITUTE OF TECHNOLOGY **1823**
PETAFLOPS WORKSHOPS
06/07/1996 – 03/31/1998 FY97: $121,360 Total: $302,000
Prin. Invest.: P MASSINA
Tech. Officer: ARC/J B HOFMAN, ARC/W J FEIEREISEN
CASE Category: 22 – COMPUTER SCIENCE

NCC 8 119 CALIFORNIA INSTITUTE OF TECHNOLOGY **1824**
R/S PHYSICAL PROPERTIES AND PROCESSING OF UNDER- COOLED METALLIC GLASS FORMING LIQUIDS
11/11/1996 – 10/31/1997 FY97: $160,000 Total: $160,000
Prin. Invest.: W L JOHNSON*Prin. Invest.:* NONE
Tech. Officer: MSFC/A C DELOACH
CASE Category: 49 – ENGINEERING, OTHER

NCCW 62 CALIFORNIA INSTITUTE OF TECHNOLOGY **1825**
KECK OBSERVATORY COLLARORATION
09/30/1994 – 09/30/2000 FY97: $6,800,000 Total: $27,200,000
Prin. Invest.: E STONE
Tech. Officer: HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NGT 30255 CALIFORNIA INSTITUTE OF TECHNOLOGY **1826**
NGT-30255/CA INSTITUTE OF TECHNOLOGY/GLOBAL CHANGE FELLOW-SHIP PROGRAM
10/02/1994 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: H TAYLOR
Tech. Officer: HQ/M BALTUCK, HQ/G ASRAR
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 30329 CALIFORNIA INSTITUTE OF TECHNOLOGY **1827**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/07/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: Y L YUNG
Tech. Officer: HQ/R A SCHIFFER, HQ/G ASRAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 51084 CALIFORNIA INSTITUTE OF TECHNOLOGY **1828**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/01/1993 – 12/31/1996 FY97: $0 Total: $44,000
Prin. Invest.: D BURNETT
Tech. Officer: HQ/D HOLLAND
CASE Category: 12 – CHEMISTRY

NGT 51156 CALIFORNIA INSTITUTE OF TECHNOLOGY **1829**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/04/1993 – 09/30/1996 FY97: $0 Total: $66,000
Prin. Invest.: R MEWALDT
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51184 CALIFORNIA INSTITUTE OF TECHNOLOGY **1830**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/20/1993 – 09/30/1996 FY97: $0 Total: $66,000
Prin. Invest.: T A PRINCE
Tech. Officer: MSFC/F SIX
CASE Category: 13 – PHYSICS

NGT 51201 CALIFORNIA INSTITUTE OF TECHNOLOGY **1831**
GRAD STUDENT RESEARCHERS PROGRAM
04/25/1994 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: J CARLSTROM
Tech. Officer: MSFC/F SIX
CASE Category: 13 – PHYSICS

NGT 51212 CALIFORNIA INSTITUTE OF TECHNOLOGY **1832**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/08/1994 – 09/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: T G PHILLIPS
Tech. Officer: GSFC/G SOFFEN
CASE Category: 13 – PHYSICS

NGT 51276 CALIFORNIA INSTITUTE OF TECHNOLOGY **1833**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/14/1994 – 12/31/1996 FY97: $0 Total: $44,000
Prin. Invest.: G A BLAKE
Tech. Officer: JPL/C HIX
CASE Category: 12 – CHEMISTRY

NGT 51397 CALIFORNIA INSTITUTE OF TECHNOLOGY **1834**
GSRP
06/16/1995 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: B C MURRAY
Tech. Officer: JPL/C HICKS
CASE Category: 11 – ASTRONOMY

NGT 51703 CALIFORNIA INSTITUTE OF TECHNOLOGY **1835**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/08/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: M GURNIS
Tech. Officer: JPL/C HIX
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 60009 CALIFORNIA INSTITUTE OF TECHNOLOGY **1836**
NASA SUMMER UNDERGRADUATE RESEARCH PROGRAM
03/09/1993 – 07/31/1997 FY97: $0 Total: $140,000
Prin. Invest.: C MERKEL
Tech. Officer: HQ/A S MCGEE, HQ/E T SCHWARTZ
CASE Category: 49 – ENGINEERING, OTHER

NGT 70372 CALIFORNIA INSTITUTE OF TECHNOLOGY **1837**
GRADUATE STUDENT RESERACHERS PROGRAM (UMDF)
08/22/1994 – 09/30/1996 FY97: $0 Total: $44,000
Prin. Invest.: H G HOMUNG
Tech. Officer: HQ/D K RUSSELL
CASE Category: 42 – ASTRONAUTICAL ENGR

NGT 5 35 CALIFORNIA INSTITUTE OF TECHNOLOGY **1838**
DEVELOPMENT OF A BROADBAND SUBMILLIMETER SPECTROME TER
07/31/1996 – 09/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: T PHILLIPS
Tech. Officer: GSFC/G SOFFEN
CASE Category: 13 – PHYSICS

NGT 5 3790 CALIFORNIA INSTITUTE OF TECHNOLOGY **1839**
SUMMER FACULTY FELLOWSHIP PROGRAM –TRAINING GRANT
01/01/1979 – 09/30/1997 FY97: $0 Total: $5,633,416
Prin. Invest.: A L ALBEE
Tech. Officer: HQ/A S MCGEE, HQ/E T SCHWARTZ
CASE Category: 49 – ENGINEERING, OTHER

NGT 5 30068 CALIFORNIA INSTITUTE OF TECHNOLOGY **1840**
EL NINO PREDICTABILITY: CAN OBSERVATIONS BE USED T MODELS
09/09/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: Y YUNG
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30096 CALIFORNIA INSTITUTE OF TECHNOLOGY **1841**
THE ISOTOPIC COMPOSITION OF STATOSPERIC AND UPPER_ AS A TRACER OF TROPOSPHER–STRATOSPHERE EXCHANGE/M
09/10/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: Y L YUNG
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50006 CALIFORNIA INSTITUTE OF TECHNOLOGY **1842**
DEVELOPMENT OF MULTILAYER FOCUSSING TELESCOPE FOR IN THE HARD X–RAY BAND
11/25/1996 – 09/30/1997 FY97: $44,000 Total: $44,000
Prin. Invest.: F A HARRISON
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 13 – PHYSICS

NGT 5 50045 CALIFORNIA INSTITUTE OF TECHNOLOGY **1843**
INTEGRAL FIELD SPECTROSCOPY OF ULTRALUMINOUS INFRA
08/05/1997 – 09/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: B SOIFER
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50125 CALIFORNIA INSTITUTE OF TECHNOLOGY **1844**
EFFECTS OF THE UNIQUE MARTIAN ENVIRONMENT ON SURFA MENTAL APPROACH
09/09/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: P M URRAY
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50144 CALIFORNIA INSTITUTE OF TECHNOLOGY **1845**
INTEGRATING SCIGN GPS DATA AND FINITE ELEMENT MODE AMICS OF THE L.A. BASIN
09/11/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: M GURNIS
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 60003 CALIFORNIA INSTITUTE OF TECHNOLOGY **1846**
A SUMMER RESEARCH PROGRAM OF NASA SUMMER FACULTY F
09/23/1997 – 06/30/1998 FY97: $380,105 Total: $380,105
Prin. Invest.: A ALBEE
Tech. Officer: GSFC/S MCGEE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 8 52820 CALIFORNIA INSTITUTE OF TECHNOLOGY **1847**
GRAD STUDENT RESEARCHER PROGRAM
07/31/1996 – 06/30/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: L E GREGO
Tech. Officer: MSFC/M JOY
CASE Category: 45 – ELECTRICAL ENGR

NSG 1483 CALIFORNIA INSTITUTE OF TECHNOLOGY **1848**
LOW SPEED IMPACT DAMAGE ON COMPOSITE MATERIALS
01/04/1978 – 11/14/1997 FY97: $59,946 Total: $1,160,074
Prin. Invest.: W G KNAUSS, C D BABCOCK
Tech. Officer: LARC/J H STARNES
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 833 CALIFORNIA POLYTECHNIC STATE U–SAN LUIS **1849**
INTUITIVE GENERIC DISPLAYS FOR REAL TIME SELECTION OF AERODYNAMIC COEFFICIENTS FURING FLIGHT SIMULA
04/15/1993 – 02/26/1996 FY97: –$12 Total: $65,479
Prin. Invest.: D BIEZAD
Tech. Officer: ARC/L J SCHILLING, ARC/M B EVANS
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 2 1024 CALIFORNIA POLYTECHNIC STATE U–SAN LUIS **1850**
MULTICRITERIA GAIN TUNING FOR ROTORCRAFT FLIGHT CO NTROLS
01/29/1996 – 09/30/1997 FY97: $0 Total: $43,791
Prin. Invest.: D BIEZAD
Tech. Officer: ARC/M B TISCHLER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 1092 CALIFORNIA POLYTECHNIC STATE U–SAN LUIS **1851**
DESIGN AIRCRAFT FLIGHT CONTROL SYSTEMS USING THE C ONDUIT DEVELOPMENT PROGRAM
11/21/1996 – 09/30/1998 FY97: $50,978 Total: $50,978
Prin. Invest.: D BIEZAD
Tech. Officer: ARC/M B TISCHLER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 4 101 CALIFORNIA POLYTECHNIC STATE U–SAN LUIS **1852**
CAL POLY THRUST VECTOR GRADUATE RESEARCH AWARD
05/18/1995 – 05/16/1998 FY97: $51,698 Total: $188,968
Prin. Invest.: T W CARPENTER
Tech. Officer: DFRC/R RAY, DFRC/A H BOWERS
CASE Category: 22 – COMPUTER SCIENCE

NAG 4 102 CALIFORNIA POLYTECHNIC STATE U–SAN LUIS **1853**
CAL POLY THRUST VECTOR UNDERGRADUATE RESEARCH
05/19/1995 – 05/16/1998 FY97: $72,537 Total: $244,478
Prin. Invest.: T W CARPENTER
Tech. Officer: DFRC/A H BOWERS, DFRC/R RAY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 4 138 CALIFORNIA POLYTECHNIC STATE U–SAN LUIS **1854**
MODAL ANALYSIS OF EMBEDDED PASSIVE DAMPING MATERIALS IN COMPOSITE PLATES
07/25/1997 – 06/27/1998 FY97: $20,000 Total: $20,000
Prin. Invest.: F KOLKAILAH
Tech. Officer: DFRC/M W KEHOE
CASE Category: 41 – AERONAUTICAL ENGNR

NAGW 4287 CALIFORNIA POLYTECHNIC STATE U–SAN LUIS **1855**
ADVANCED DESIGN PROGRAM
02/07/1995 – 03/31/1996 FY97: $0 Total: $17,350
Prin. Invest.: R VAN–T RIET
Tech. Officer: HQ/A S MCGEE, HQ/G SEIDEL
CASE Category: 49 – ENGINEERING, OTHER

NCC 2 800 CALIFORNIA POLYTECHNIC STATE U–SAN LUIS **1856**
RAPID ASSESSMENT OF AGLITY FOR CONCEPTUAL DESIGN SYNTHESIS
05/20/1993 – 06/30/1996 FY97: –$106 Total: $44,341
Prin. Invest.: D J BEIZAD
Tech. Officer: ARC/G C HILL
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 834 CALIFORNIA POLYTECHNIC STATE U–SAN LUIS **1857**
MODIFICATION OF ACSYNT AIRCRAFT COMPUTER PROGRAM F OR PRELIMINARY DESIGN
11/15/1993 – 03/31/1996 FY97: –$240 Total: $41,480
Prin. Invest.: D BIEZAD, R R OVIEDO
Tech. Officer: ARC/P A GELHAUSEN, ARC/A S HAHN
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 857 CALIFORNIA POLYTECHNIC STATE U–SAN LUIS **1858**
COMPUTATIONAL INVESTIGATION OF FLAP EDGES
06/02/1994 – 09/30/1996 FY97: –$3,638 Total: $55,032
Prin. Invest.: R M CUMMINGS, S L GRABHORN
Tech. Officer: ARC/J C ROSS, ARC/K R TONER
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 924 CALIFORNIA POLYTECHNIC STATE U–SAN LUIS **1859**
SONIC WAVE ATMOSPHERIC PAROPAGATION
08/28/1995 – 08/31/1997 FY97: $11,906 Total: $43,871
Prin. Invest.: R M CUMMINGS, M D BAKER
Tech. Officer: ARC/E L TU
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 2 983 CALIFORNIA POLYTECHNIC STATE U–SAN LUIS **1860**
A DESIGN–INTERACTIVE HANDLING QUALITIES EVALUATION TOOL WITH APPLICATIONSTO ROTORCRAFT FLIGHT CONT
03/27/1997 – 01/31/1998 FY97: $70,000 Total: $70,000
Prin. Invest.: D BIEZAD, NONE
Tech. Officer: ARC/M B TISCHLER
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5110 CALIFORNIA POLYTECHNIC STATE U-SAN LUIS **1861**
ACTIVE ISOLATION SYSTEM FOR AN ELECTRONIC EQUIPMEN T MOUNTING PLATE
01/12/1995 – 01/31/1997 FY97: -$10 Total: $51,990
Prin. Invest.: F A KOLKAILAH
Tech. Officer: DFRC/D VORACEK
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 10012 CALIFORNIA POLYTECHNIC STATE U-SAN LUIS **1862**
MULTIDISCIPLINARY DESIGN AND ANALYSIS FELLOWSHIP P ROGRAM
10/04/1993 – 09/30/1998 FY97: $210,750 Total: $664,903
Prin. Invest.: R M CUMMINGS, H J FREEMAN
Tech. Officer: HQ/G S SEIDEL, HQ/J R FACEY
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 529 CALIFORNIA STATE UNIV.- HAYWARD **1863**
ANALYSIS OF THE VISUAL FRAMEWORK EFFECT
03/01/1988 – 06/30/1998 FY97: $11,168 Total: $449,067
Prin. Invest.: A E STOPER
Tech. Officer: ARC/M M COHEN
CASE Category: 69 – PSYCHOLOGY, OTHER

NAS 3 26127 CALIFORNIA STATE UNIVERSITY – CHICO **1864**
SERVICES TO OPERATE NASA LEWIS RESEARCH CENTER LEA RNING CENTER
11/01/1990 – 10/31/1997 FY97: $265,785 Total: $1,756,097
Prin. Invest.: J WRIGHT, S GAUL
Tech. Officer: LERC/D CONRAD, LERC/C DEMONGEOT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 2 5062 CALIFORNIA STATE UNIVERSITY – CHICO **1865**
ASSESSMENT OF LEAF AREA VINE VIGOR GRAPE YIELD AND QUALITY OF PHYLLOXERA-INFESTED & NON-INFESTED ..
06/03/1994 – 12/31/1995 FY97: -$257 Total: $59,474
Prin. Invest.: M BALDY, R BALDY
Tech. Officer: ARC/J SALUTE, ARC/C HLAVKA
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 2 5175 CALIFORNIA STATE UNIVERSITY – FRESNO **1866**
PILOT STUDIES OF NITROGEN TRACE GAS FLUX FROM MANA GED SOLIS OF THE SAN JOAQUIN VALLEY
03/28/1996 – 12/31/1997 FY97: $0 Total: $4,743
Prin. Invest.: D F ZOLDOSKE
Tech. Officer: ARC/D L PETERSON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 70412 CALIFORNIA STATE UNIVERSITY – FRESNO **1867**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/31/1995 – 07/31/1998 FY97: $0 Total: $22,000
Prin. Invest.: A AUERNHEIMER
Tech. Officer: HQ/D K RUSSELL
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 3787 CALIFORNIA STATE UNIVERSITY – FULLERTON **1868**
ELECTRON IMPACT EXCITATION OF MOLECULAR HYDROGEN
03/14/1997 – 02/28/1998 FY97: $28,000 Total: $28,000
Prin. Invest.: D KHAKOO
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 4113 CALIFORNIA STATE UNIVERSITY – FULLERTON **1869**
PRODUCTION OF CD-ROM SET: OPTICAL CCD IMAGES IN SU ASTRO-2/UIT SPACE SHUTTLE MISSION
04/16/1997 – 04/14/1998 FY97: $19,000 Total: $19,000
Prin. Invest.: P CHENG
Tech. Officer: GSFC/T P STECHER
CASE Category: 11 – ASTRONOMY

NAG 5 4945 CALIFORNIA STATE UNIVERSITY – FULLERTON **1870**
METEORITE COMPACTION AGES: ANCIENT ENERGETIC PARTI DISSIPATION IN THE EARLY SOLAR NEBULA
06/23/1997 – 12/31/1997 FY97: $50,000 Total: $50,000
Prin. Invest.: D WOOLUM
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAGW 2515 CALIFORNIA STATE UNIVERSITY – FULLERTON **1871**
METEORITE COMPACTION AGES & THE SEARCH FOR EVIDENCE FOR AN EARLY ACTIVE (T-TAURI) SUN
02/26/1991 – 09/30/1997 FY97: $0 Total: $272,263
Prin. Invest.: D S WOLLUM
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 1 1697 CALIFORNIA STATE UNIVERSITY – LONG BEACH **1872**
EXPERIMENTAL STUDY OF AN ADAPTIVE NOISE CONTROL ALGORITHM WITH ON LINE IDENTIFICTION
03/21/1995 – 03/20/1997 FY97: $0 Total: $39,302
Prin. Invest.: S HUNT
Tech. Officer: LARC/R J SILOX, LARC/K P SHEPHERD
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1634 CALIFORNIA STATE UNIVERSITY – LONG BEACH **1873**
MAGNETORHEOLOGICAL FLUIDS IN MICROGRAVITY
06/29/1994 – 12/01/1996 FY97: $0 Total: $100,000
Prin. Invest.: J LIU
Tech. Officer: LERC/N R HALL
CASE Category: 13 – PHYSICS

NAG 3 1830 CALIFORNIA STATE UNIVERSITY – LONG BEACH **1874**
MAGNETHEOLOGICAL FLUIDS: RHEOLOGY AND NONEQUILBRI UM PATTERN FORMATION
04/18/1996 – 04/17/2000 FY97: $131,000 Total: $251,000
Prin. Invest.: J LIU
Tech. Officer: LERC/K HSIEH
CASE Category: 13 – PHYSICS

NCC 4 107 CALIFORNIA STATE UNIVERSITY – LONG BEACH **1875**
STRUCTURAL FAILURE ANALYSIS AND MATERIAL FAILURE CRITERION INVESTIGATION
07/26/1996 – 07/30/1998 FY97: $14,000 Total: $27,000
Prin. Invest.: H YEH
Tech. Officer: DFRC/L RICHARDS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1867 CALIFORNIA STATE UNIVERSITY – LOS ANGELES **1876**
SOLAR EAGLE II PROJECT
09/26/1996 – 09/30/1998 FY97: $12,000 Total: $22,000
Prin. Invest.: D B LANDIS
Tech. Officer: LARC/R A HATHAWAY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 4 119 CALIFORNIA STATE UNIVERSITY – LOS ANGELES **1877**
SYSTEM INTEGRATION MUTIDISCIPLINARY ANALYSIS AND MODELING
02/24/1997 – 01/28/1998 FY97: $75,000 Total: $75,000
Prin. Invest.: S H LEE, D FELSZEGHY
Tech. Officer: DFRC/L DUKE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 4 127 CALIFORNIA STATE UNIVERSITY – LOS ANGELES **1878**
THE SCIENCE AMBASSADOR DISTANCE LEARNING PROJECT NEW AWARD
05/23/1997 – 05/23/1999 FY97: $394,739 Total: $394,739
Prin. Invest.: T ADENIKA–MORROW
Tech. Officer: DFRC/E L DUKE, DFRC/E COX
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 4 130 CALIFORNIA STATE UNIVERSITY – LOS ANGELES **1879**
COMPUTER SIMULATION OF PLANNING/NAVIGATION IN TWO AND THREE DIMENSIONAL DYNAMIC ENVIRONMENTS
05/23/1997 – 05/23/1998 FY97: $200,000 Total: $200,000
Prin. Invest.: C WU
Tech. Officer: DFRC/K GUPTA
CASE Category: 22 – COMPUTER SCIENCE

NAG 4 136 CALIFORNIA STATE UNIVERSITY – LOS ANGELES **1880**
SIMULATION AND CONTROL OF SYPERSONIC VEHICLE NEW AWARD
06/27/1997 – 06/27/1998 FY97: $58,287 Total: $58,287
Prin. Invest.: M MIRMIRANI
Tech. Officer: DFRC/K K GUPTA
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 3475 CALIFORNIA STATE UNIVERSITY – LOS ANGELES **1881**
MATHEMATICS, SCIENCE AND TECHNOLOGY AWARDS FOR TEA HANCE-MENT (MASTAP)/FUTURE ACCREDITED SCIENCE TEAC
12/16/1996 – 10/31/1997 FY97: $199,734 Total: $199,734
Prin. Invest.: T ADENIKA–MORROW
Tech. Officer: GSFC/M MATEU
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 6195 CALIFORNIA STATE UNIVERSITY – LOS ANGELES **1882**
PACE/MSET AWARD. PERIOD OF PERFORMANCE JULY 1, 199
08/29/1997 – 06/30/1998 FY97: $99,995 Total: $99,995
Prin. Invest.: W TAYLOR
Tech. Officer: GSFC/D STOUTSENBERGER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4103 CALIFORNIA STATE UNIVERSITY – LOS ANGELES **1883**
YSE IF DECEBTRAKUZED CONTROL IN DESIGN OF A LARGE SEGMENT
08/15/1994 – 08/30/1997 FY97: $800,000 Total: $1,800,000
Prin. Invest.: H BOUSSALIS
Tech. Officer: HQ/B L WHITE
CASE Category: 11 – ASTRONOMY

NAGW 4225 CALIFORNIA STATE UNIVERSITY – LOS ANGELES **1884**
FAST/URMFP
12/14/1994 – 10/31/1997 FY97: $0 Total: $400,613
Prin. Invest.: T J ADENIKA–MORROW
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5144 CALIFORNIA STATE UNIVERSITY – LOS ANGELES **1885**
UNIVERSITY PREPARATORY PROGRAM UPP
08/14/1996 – 06/30/1997 FY97: $0 Total: $100,000
Prin. Invest.: W TAYLOR, M EPSTEIN
Tech. Officer: HQ/B WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90051 CALIFORNIA STATE UNIVERSITY – LOS ANGELES **1886**
UNDERGRADUATE STUDENT RESEARCHERS PRG
08/22/1991 – 08/31/1996 FY97: $24,000 Total: $153,177
Prin. Invest.: M RANDLE
Tech. Officer: HQ/B WHITE
CASE Category: 49 – ENGINEERING, OTHER

NGT 90064 CALIFORNIA STATE UNIVERSITY – LOS ANGELES **1887**
A PROGRAM TO IMPROVE TRANSFER RATES OF UNDERREPRES ENTED MINORITY PRE–ENGINEERING STUDENTS FROM CA
08/21/1992 – 08/14/1996 FY97: $0 Total: $488,000
Prin. Invest.: R LANDIS
Tech. Officer: HQ/B WHITE, HQ/S MASSENBERG
CASE Category: 49 – ENGINEERING, OTHER

NGT 5 90016 CALIFORNIA STATE UNIVERSITY – LOS ANGELES **1888**
UNDERGRADUATE SCHOLAR AWARDS FOR RESEARCH (USAR)
12/30/1996 – 08/31/1997 FY97: $57,771 Total: $57,771
Prin. Invest.: M RANDLE
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 46 – MECHANICAL ENGR

NGT 5 90063 CALIFORNIA STATE UNIVERSITY – LOS ANGELES **1889**
TRAINING GRANT–A MODEL PROGRAM TO IMPROVE THE TRAN RESENTED MINORITY ENGINEERING STUDENTS
03/17/1997 – 08/14/1997 FY97: $122,000 Total: $122,000
Prin. Invest.: R B LANDIS
Tech. Officer: GSFC/M MATEU
CASE Category: 49 – ENGINEERING,OTHER

NAG 5 6295 CALIFORNIA STATE UNIVERSITY – MONTERY BAY **1890**
CALIFORNIA STATE UNIVERSITY – EARTH SYSTEM SCIENCE
09/17/1997 – 08/31/1998 FY97: $20,000 Total: $20,000
Prin. Invest.: J F PARIS
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 2 975 CALIFORNIA STATE UNIVERSITY – MONTERY BAY **1891**
COOPPERATIVE RESEARCH IN EARTH SYSTEM SCIENCE, TEC HNOLOGY & APPLICATIONS
12/19/1996 – 01/31/1998 FY97: $338,142 Total: $338,142
Prin. Invest.: S E ALEXANDER, L F JOHNSON, J C COUGHLAN
Tech. Officer: ARC/D L PETERSON, ARC/J A BRASS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2744 CALIFORNIA STATE UNIVERSITY – NORTHRIDGE **1892**
THE H–IONIZATION IN THE LOCAL INTERSTELLAR MEDIUM: EFFECTS OF NEW EUV SOURCES
10/05/1994 – 10/14/1996 FY97: $0 Total: $52,000
Prin. Invest.: K CHENG
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 2994 CALIFORNIA STATE UNIVERSITY – NORTHRIDGE **1893**
AN IUE STUDY OF CIRCUMSTELLAR GAS AROUND PROTO– PLANETARY SYSTEM CANDIDATES
07/13/1995 – 07/14/1997 FY97: $0 Total: $22,300
Prin. Invest.: K CHENG
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4973 CALIFORNIA STATE UNIVERSITY – NORTHRIDGE **1894**
PRECISE GROUND–BASED PHOTOMETRIC OBSERVATIONS AND SOLAR TOTAL AND SPECTRAL IRRADIANCE OBSERVATIONS B
06/23/1997 – 07/31/1998 FY97: $74,623 Total: $74,623
Prin. Invest.: G A CHAPMAN
Tech. Officer: GSFC/W J WAGNER
CASE Category: 11 – ASTRONOMY

NAGW 3017 CALIFORNIA STATE UNIVERSITY – NORTHRIDGE **1895**
NAGW–3017/CA STATE UNIV/PHOTOMETRIC OBSERVATIONS IN SUPPORT OF ACRIM 2 ONTHE UARS MISSION
04/17/1992 – 07/31/1997 FY97: $0 Total: $292,804
Prin. Invest.: G A CHAPMAN
Tech. Officer: HQ/W J WAGNER, HQ/J D BOHLIN
CASE Category: 11 – ASTRONOMY

NAGW 4954 CALIFORNIA STATE UNIVERSITY – NORTHRIDGE **1896**
ALLIANCE FOR MINORITY PARTICIPATION
03/07/1996 – 02/28/1997 FY97: $0 Total: $99,250
Prin. Invest.: A F RATCLIFFE
Tech. Officer: HQ/D RUSSELL
CASE Category: 21 – MATHEMATICS

NAS 4 97052 CALIFORNIA STATE UNIVERSITY – NORTHRIDGE **1897**
EDUCATION SERVICES
09/18/1997 – 09/30/1997 FY97: $200,000 Total: $200,000
Prin. Invest.: C CORDOVA
Tech. Officer: DFRC/C C CORDOVA
CASE Category: 22 – COMPUTER SCIENCE

NGT 90032 CALIFORNIA STATE UNIVERSITY – NORTHRIDGE **1898**
NGT–90032/CA STATE UNIV/AN INTER–INSTITUTIONAL ENG INEERING RETENTION PROGRAM FOR ETHNIC MINORITIES
08/01/1990 – 06/14/1997 FY97: $166,734 Total: $1,548,263
Prin. Invest.: C MORNING
Tech. Officer: HQ/M S MARGOLIS
CASE Category: 49 – ENGINEERING, OTHER

NAG 8 1220 CALIFORNIA STATE UNIVERSITY – SACRAMENTO **1899**
JOVE
11/30/1995 – 08/31/1998 FY97: $22,000 Total: $69,600
Prin. Invest.: B HAUSBACK, Z NDLELA
Tech. Officer: MSFC/DSIX
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 4 108 CALIFORNIA STATE UNIVERSITY–BAKERSFIELD **1900**
EVALUATION ASSISTANCE FOR DRYDEN FLIGHT RESEARCH CENTER AND ENGINEERING
05/29/1996 – 05/30/1997 FY97: $0 Total: $15,912
Prin. Invest.: D L NYBERG
Tech. Officer: DFRC/D MACKALL, DFRC/C V CHACON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 2001 CALIFORNIA WESTERN SCHOOL OF LAW **1901**
AERONAUTS 2000: CURRICULUM DEVELOPMENT PROJECT
01/07/1997 – 01/31/1998 FY97: $25,000 Total: $25,000
Prin. Invest.: A L JOHNSON
Tech. Officer: LERC/B E LEWANDOWSKI
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 2010 CLAREMONT MCKENNA COLLEGE **1902**
STUDY OF BURST DETECTIONS BY BATSE
07/08/1992 – 01/14/1997 FY97: $0 Total: $180,963
Prin. Invest.: J C HIGDON
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3154 CLAREMONT MCKENNA COLLEGE **1903**
THRESHOLD–DEPENDENT PEAK DURATION DISTRIBUTION OF CLASSICAL GAMMA–RAY BURTS
01/17/1996 – 01/14/1998 FY97: $0 Total: $10,000
Prin. Invest.: V C WANG, NONE
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3519 CLAREMONT MCKENNA COLLEGE **1904**
PEAK DISTRIBUTION OF CLASSICAL GAMMA–RAY BURSTS
03/03/1997 – 02/14/1998 FY97: $29,950 Total: $29,950
Prin. Invest.: V WANG
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3694 CLAREMONT MCKENNA COLLEGE **1905**
SELECTION BIASES ON THE SPECTRAL AND TEMPORAL DIST GAMMA RAY BURSTS
02/11/1997 – 01/31/1998 FY97: $20,000 Total: $20,000
Prin. Invest.: J C HIGDON
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 4883 COLLEGE OF SAN MATEO **1906**
DEVELOP REMOTE SENSING EDUCATIONAL MATERIALS TO BE ITY COLLEGES ACROSS THE US.
08/01/1997 – 01/31/1998 FY97: $81,000 Total: $81,000
Prin. Invest.: K KENNEDY
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4942 COLLEGE OF SAN MATEO **1907**
ACTES: AN ASSOCIATE OF ARTS IN COMMUNITY COLLEGES FOR TRAINING IN EARTH SCIENCE
02/24/1996 – 01/31/1999 FY97: $0 Total: $74,000
Prin. Invest.: K D KENNEDY
Tech. Officer: HQ/M A PINE, HQ/D R NORTON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 8 998 CYPRESS COLLEGE **1908**
JOVE
11/01/1993 – 05/31/1997 FY97: $0 Total: $72,250
Prin. Invest.: J CATANZARITE
Tech. Officer: MSFC/F SIX
CASE Category: 11 – ASTRONOMY

NGT 5 90040 D-Q UNIVERSITY **1909**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
01/30/1997 - 08/14/1998 FY97: $60,000 Total: $60,000
Prin. Invest.: S TIWARI
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 49 - ENGINEERING, OTHER

NGT 2 1001 FOOTHILL-DE ANZA COM COLLEGE SYSTEM OFF **1910**
SCIENTIFIC-TECHNICAL & BUSINESS CAREERS TRAINING G RANT
07/07/1993 - 06/30/1998 FY97: $998,950 Total: $4,824,275
Prin. Invest.: M CONWAY
Tech. Officer: ARC/M E LOPEZ, ARC/J M MCCULLOUGH
CASE Category: 99 - MULTI INTERDISCPL, OTHER

NGT 2 1002 FOOTHILL-DE ANZA COM COLLEGE SYSTEM OFF **1911**
INDUSTRIAL CRAFTS TRAINING GRANT
07/07/1993 - 06/30/1997 FY97: $5,555 Total: $1,278,772
Prin. Invest.: M CONWAY
Tech. Officer: ARC/D L FENG-WOOD, ARC/P J HARO
CASE Category: 99 - MULTI INTERDISCPL, OTHER

NAG 2 960 HARVEY MUDD COLLEGE **1912**
ABUNDANCES & MOLECULAR CLOUD STRUCTURE IN THE OUTE R GAL-AXY
02/06/1995 - 01/31/1997 FY97: $0 Total: $47,300
Prin. Invest.: A RUDOLPH, M M
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 - ASTRONOMY

NAG 5 3406 HARVEY MUDD COLLEGE **1913**
ABUNDANCE DETERMINATIONS IN THE FAR OUTER GALAXY: INFRARED OBSERVATIONS OF HII REGIONS
09/06/1996 - 08/14/1998 FY97: $0 Total: $18,100
Prin. Invest.: A RUDOLPH
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NGT 90247 HUMBOLDT STATE UNIVERSITY **1914**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
11/22/1994 - 08/14/1996 FY97: -$8,356 Total: $15,629
Prin. Invest.: T ROELOFS
Tech. Officer: HQ/D K RUSSELL
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 90031 HUMBOLDT STATE UNIVERSITY **1915**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
01/30/1997 - 08/14/1997 FY97: $11,985 Total: $11,985
Prin. Invest.: T ROELOFS
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 49 - ENGINEERING, OTHER

NCC 5 236 LOMA LINDA UNIVERSITY **1916**
COOPERATIVE RESEARCH IN PROTON SPACE RADIATION
09/10/1997 - 09/30/1998 FY97: $3,000,000 Total: $3,000,000
Prin. Invest.: D NELSON
Tech. Officer: GSFC/W SCHIMMERLING
CASE Category: 59 - LIFE SCIENCE, OTHER

NCCW 98 LOMA LINDA UNIVERSITY **1917**
COOPERATIVE RESEARCH IN PROTON SPACE RADIATION
08/07/1996 - 09/30/1997 FY97: $0 Total: $3,500,000
Prin. Invest.: D M SLATER
Tech. Officer: HQ/V THORNE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 4 115 LOYOLA MARYMOUNT UNIVERSITY **1918**
NEW METHODOLOGY OF INTEGRATED PROJECT DEVELOPMENT THROUGH SOLID MODELING ANALKYSIS PROTOTYPING ETC
01/31/1997 - 09/30/1997 FY97: $24,955 Total: $24,955
Prin. Invest.: R NOORANI
Tech. Officer: DFRC/K K GUPTA
CASE Category: 41 - AERONAUTICAL ENGNR

NAG 8 275 LOYOLA MARYMOUNT UNIVERSITY **1919**
JOVE
11/04/1992 - 09/30/1996 FY97: $0 Total: $128,750
Prin. Invest.: J SANNY, S SCHECK, C WEEKS
Tech. Officer: MSFC/F SIX
CASE Category: 99 - MULTI INTERDISCPL, OTHER

NGT 4 52401 LOYOLA MARYMOUNT UNIVERSITY **1920**
KNOWLEDGE BASED AIRCRAFT AUTOMATION
05/22/1996 - 05/21/1997 FY97: $0 Total: $22,000
Prin. Invest.: D OPPENHEIM
Tech. Officer: DFRC/K GUPTA
CASE Category: 41 - AERONAUTICAL ENGNR

NAG 2 6013 NATIONAL HISPANIC UNIVERSITY **1921**
MINORITY EDUCATORS NEURO-LAB TRAINING FOR EXCELLEN CE IN SCI-ENCE (MENTES)
07/25/1997 - 06/30/1998 FY97: $99,546 Total: $99,546
Prin. Invest.: M C VIRAMONTES
Tech. Officer: ARC/B LUNA, ARC/G S LEE
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 2 6016 NATIONAL HISPANIC UNIVERSITY **1922**
LEARNING INNOVATIVE MATHEMATICS & SCIENCE WITH TEC HNOLOGY
08/21/1997 - 07/31/1998 FY97: $99,995 Total: $99,995
Prin. Invest.: R D PARKER
Tech. Officer: ARC/G S LEE
CASE Category: 99 - MULTI INTERDISCPL, OTHER

NAG 5 4182 NATIONAL HISPANIC UNIVERSITY **1923**
PACE/MSET CIENTIFICOS 2 PROJECT
03/27/1997 - 10/31/1997 FY97: $99,990 Total: $99,990
Prin. Invest.: M E RIDDLE
Tech. Officer: GSFC/M STOUTSENBERGER
CASE Category: 99 - MULTI INTERDISCPL, OTHER

NAGW 5165 PASADENA CITY COLLEGE **1924**
PASADENA CITY COLLEGE PRE-COLLEGE SCIENCE ACADEMY
09/20/1996 - 09/30/1997 FY97: $98,903 Total: $98,903
Prin. Invest.: J CONNER
Tech. Officer: HQ/B WHITE
CASE Category: 99 - MULTI INTERDISCPL, OTHER

NAG 5 2887 POMONA COLLEGE **1925**
MULTIWAVELENGTH BLAZAR STUDIES
02/13/1995 – 04/14/1996 FY97: -$104 Total: $7,596
Prin. Invest.: A C ZOOK, R C HARTMAN
Tech. Officer: GSFC/J PNORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 3 2050 SAN DIEGO STATE UNIVERSITY **1926**
HIGH SPEED DIGITAL SIGNAL PROCESSING BASED DIGITAL RECEIVERS & TRANSMITTERS
05/15/1997 – 04/30/1998 FY97: $80,000 Total: $80,000
Prin. Invest.: F HARRIS
Tech. Officer: LERC/M ANDRO
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 6060 SAN DIEGO STATE UNIVERSITY **1927**
MECHANISM OF AUXIN ACTION IN ROOT GROWTH/GRAVITRO
07/29/1997 – 04/30/1998 FY97: $122,842 Total: $122,842
Prin. Invest.: D RAYLE
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 2154 SAN DIEGO STATE UNIVERSITY **1928**
CLASSIFICATION OF BIO–OPTICAL PROVINCES IN THE NOR TH ATLANTIC DURING JGOFS
08/31/1990 – 04/30/1997 FY97: $0 Total: $571,269
Prin. Invest.: C C TREES
Tech. Officer: HQ/M R LEWIS, HQ/W S WILSON
CASE Category: 33 – OCEANOGRAPHY

NAGW 3494 SAN DIEGO STATE UNIVERSITY **1929**
SEA.PIG., PRI.PROD. & SED.OF ORG.MATT.IN THE GULF OF CALI.,& THE ELNINO–SOUTH. OSCILL. CYCLE
04/12/1993 – 12/31/1997 FY97: $150,000 Total: $404,000
Prin. Invest.: J L MUELLER
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4435 SAN DIEGO STATE UNIVERSITY **1930**
MECHANISM OF AUXIN ACTION IN ROOT GROWTH/GRAVITROP ISM
05/02/1995 – 06/30/1997 FY97: $0 Total: $235,264
Prin. Invest.: D L RAYLE
Tech. Officer: HQ/T K SCOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAS 5 97126 SAN DIEGO STATE UNIVERSITY **1931**
SIMBIOS NORMALIZED WATER–LEAVING RADIANCE CAL/VAL
08/18/1997 – 08/17/1998 FY97: $242,160 Total: $242,160
Prin. Invest.: J L MUELLER
Tech. Officer: GSFC/C R MCCLAIN
CASE Category: 33 – OCEANOGRAPHY

NCC13 16 SAN DIEGO STATE UNIVERSITY **1932**
VISITING INVESTIGATOR PROGRAM VISITING INVESTIGATOR PROGRAM
09/25/1996 – 12/31/1997 FY97: $91,984 Total: $124,984
Prin. Invest.: D HERGERT
Tech. Officer: SSC/H CARR
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 30235 SAN DIEGO STATE UNIVERSITY **1933**
GLOBAL CHANGE FELLOWSHIP PROGRAM
10/10/1994 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: J FRANKLIN
Tech. Officer: HQ/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30311 SAN DIEGO STATE UNIVERSITY **1934**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/10/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: W OECHEL
Tech. Officer: HQ/D E WICKLAND, HQ/G ASRAR
CASE Category: 30 –

NGT 30319 SAN DIEGO STATE UNIVERSITY **1935**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/07/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: W C OECHEL
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30077 SAN DIEGO STATE UNIVERSITY **1936**
THIRD YEAR FUNDING: "EFFECTS OF ELEVATED CO2 AND FOREST PRODUCTIVITY AND NUTRIENT DYNAMICS IN TUSCA
09/10/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D ALLEN*Prin. Invest.:* NONE
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30118 SAN DIEGO STATE UNIVERSITY **1937**
USING REMOTE SENSING & NATURAL CO2 SPRINGS TO UNDE OF ELEVATED CO2 ON ECOSYSTEMS STRUCTURE AND FUNCT
09/26/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: W C OECHEL
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL,OTHER

NAG 5 4128 SAN FRANCISCO STATE UNIVERSITY **1938**
DETERMINATION OF OPTICAL CONSTANTS OF VOLATILE & F MINERALS FOR THERMAL INFRARED SPRECTRA OF THE MAR
03/14/1997 – 06/30/1998 FY97: $72,400 Total: $72,400
Prin. Invest.: T L ROUSH
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4885 SAN FRANCISCO STATE UNIVERSITY **1939**
A DEEP ROSAT HRI SURVEY OF GALACTIC GLOBULAR CLUST
08/05/1997 – 07/31/1998 FY97: $4,485 Total: $4,485
Prin. Invest.: A COOL
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 6323 SAN FRANCISCO STATE UNIVERSITY **1940**
DETECTING EXTRA–SOLAR PLANETS: CROSSING THE JUPIT
09/09/1997 – 07/31/1998 FY97: $34,858 Total: $34,858
Prin. Invest.: D W MARCY
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAGW 2212 SAN FRANCISCO STATE UNIVERSITY **1941**
DETERMINATION OF THE OPTICAL CONSTANTS OF HYDRATES , CARBONATES, SULFATES, AND NITRATES
10/09/1990 – 06/30/1997 FY97: $0 Total: $197,000
Prin. Invest.: T ROUSH
Tech. Officer: HQ/J PLESCIA
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3182 SAN FRANCISCO STATE UNIVERSITY **1942**
NAGW-3182/SAN FRANCISCO STATE UNIV/A NEXT-GENERATI ON SEARCH FOR EXTRA-SOLAR PLANETS
08/28/1992 – 09/30/1996 FY97: $0 Total: $473,741
Prin. Invest.: G W MARCY
Tech. Officer: HQ/J K ALEXANDER, HQ/D A HOLLAND
CASE Category: 11 – ASTRONOMY

NAGW 5125 SAN FRANCISCO STATE UNIVERSITY **1943**
A PRECISION DOPPLER SEARCH FOR EXTRA SOLAR PLANETS
08/23/1996 – 06/30/1997 FY97: $0 Total: $44,922
Prin. Invest.: G W MARCY
Tech. Officer: HQ/P ROGERS, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAS 9 19410 SAN FRANCISCO STATE UNIVERSITY **1944**
ANALYSIS OF VOLATILE ORGANIC COMPOUNDS ON MIR STATION
10/27/1995 – 09/30/1998 FY97: $90,000 Total: $286,219
Prin. Invest.: D PALMER
Tech. Officer: JSC/A PLAZA
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 2 808 SAN FRANCISCO STATE UNIVERSITY **1945**
THE BIOGENIC ELEMENTS IN MARS SOIL
07/01/1993 – 12/31/1997 FY97: $38,070 Total: $233,251
Prin. Invest.: J B ORENBERG
Tech. Officer: ARC/G C CARLE
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 2 815 SAN FRANCISCO STATE UNIVERSITY **1946**
MODELING THE REFLECTANCE SPECTRA OF CONDENSED VOLA TILES ON PLANETARY SURFACES
08/06/1993 – 06/30/1996 FY97: -$563 Total: $96,273
Prin. Invest.: T L ROUSH, J P MONTEVERDI
Tech. Officer: ARC/D P CRUIKSHANK, ARC/J N CUZZI
CASE Category: 11 – ASTRONOMY

NCC 2 901 SAN FRANCISCO STATE UNIVERSITY **1947**
CONSTRUCTION OF A LONG-TERM CLIMATOLOGY OF ANTARCT IC POLAR STRATOSPHERIC CLOUDS BYAN AUTOMATED....
03/27/1995 – 09/30/1998 FY97: $190,288 Total: $364,988
Prin. Invest.: K L PAGAN, O GARCIA, P G FOSCHI
Tech. Officer: ARC/R S HIPSKIND, ARC/E P CONDON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 997 SAN FRANCISCO STATE UNIVERSITY **1948**
ROBOTIC INTELLIGENT PLANETARY EXPLORERS (RIPE)
06/11/1997 – 11/30/1997 FY97: $52,336 Total: $52,336
Prin. Invest.: T L ROUSH, J J DERST, E FERON
Tech. Officer: ARC/J N CUZZI
CASE Category: 11 – ASTRONOMY

NCC 2 5164 SAN FRANCISCO STATE UNIVERSITY **1949**
DESIGN OF A RESUPPLY SYSTEM FOR THE 52-FOOT DIAMET ER CENTRIFUGE
12/04/1995 – 09/15/1996 FY97: -$1 Total: $29,927
Prin. Invest.: P PFAELZER, N OWEN
Tech. Officer: ARC/B CORBIN
CASE Category: 46 – MECHANICAL ENGR

NCC 2 5180 SAN FRANCISCO STATE UNIVERSITY **1950**
FUTURE OFFICE INFRASTRUCTURE
06/17/1996 – 03/31/1998 FY97: $49,986 Total: $79,973
Prin. Invest.: P SHAHNASSER
Tech. Officer: ARC/P R GRAMS
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1804 SAN JOSE STATE UNIVERSITY **1951**
THEORETICAL STUDIES OF PROCESSES AFFECTING THE STRATOSPHERIC AND FREE TROPOSPHERIC AEROSOL
02/13/1996 – 05/31/1998 FY97: $29,852 Total: $58,852
Prin. Invest.: P HAMILL
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 848 SAN JOSE STATE UNIVERSITY **1952**
DEVELOPMENT OF PROCESSING TECHNIQUES FOR ADVANCED THERMAL PROTECTION MATERIALS
06/17/1993 – 05/31/1998 FY97: $0 Total: $391,171
Prin. Invest.: G SELVADURAY
Tech. Officer: ARC/D B LEISER
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 2 966 SAN JOSE STATE UNIVERSITY **1953**
THERMAL CONDUCTIVITY OF INTERLACED TWO PHASE SYSTE MS FOR FUSIBLE HEAT SINK APPLICATIONS
02/28/1995 – 06/30/1997 FY97: $0 Total: $40,000
Prin. Invest.: G SELVADURAY
Tech. Officer: ARC/W C LOMAX, ARC/B W WEBBON
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 2 1163 SAN JOSE STATE UNIVERSITY **1954**
THERMAL PROPERTY PARAMETER ESTIMATION OF TPS MATER IALS
09/25/1997 – 09/30/1998 FY97: $33,000 Total: $33,000
Prin. Invest.: J MADDREN
Tech. Officer: ARC/D J RASKY, ARC/D LEISER
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 4372 SAN JOSE STATE UNIVERSITY **1955**
RADIO OCCULTATION INVESTIGATION OF THE RINGS OF SA
04/25/1997 – 02/28/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: D A MAROUF
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3656 SAN JOSE STATE UNIVERSITY **1956**
RADIO OCCULTATION INVESTIGATION OF THE RINGS
06/17/1993 – 02/28/1997 FY97: $0 Total: $176,000
Prin. Invest.: E A MAROUF
Tech. Officer: HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 4480 SAN JOSE STATE UNIVERSITY **1957**
EFFECTS OF ARTIFICIAL GRAVITY: MORPHOLOGICAL AND NEUROCHEMICAL STUDIES IN MUSCLE RECEPTORS
05/10/1995 – 04/30/1997 FY97: $0 Total: $200,000
Prin. Invest.: R A FOX
Tech. Officer: HQ/V SCHNEIDER
CASE Category: 56 – MEDICL

NAS 5 31746 SAN JOSE STATE UNIVERSITY **1958**
ACQUISITION OF OPTICAL MOORING & SHIPBOARD SUBMERSIBLE RADIOMETER SYSTEM
05/12/1992 – 10/16/1996 FY97: $0 Total: $2,827,097
Prin. Invest.: W BROENKOW
Tech. Officer: GSFC/C MCCLAIN
CASE Category: 33 – OCEANOGRAPHY

NAS 8 97106 SAN JOSE STATE UNIVERSITY **1959**
R/S IMPACTS OF URBAN GROWTH ON REGIONAL CLIMATE AND AIR QUALITY
11/19/1996 – 11/18/1998 FY97: $59,751 Total: $59,751
Prin. Invest.: R BORSTEIN
Tech. Officer: MSFC/T MILLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 2 168 SAN JOSE STATE UNIVERSITY **1960**
EXPERIMENTAL STUDIES OF THE DISTRIBUTION OF MINOR CONSTITUENTS IN THE ATMOSPHERE
01/01/1982 – 09/30/1998 FY97: $388,975 Total: $2,624,586
Prin. Invest.: J GOODMAN
Tech. Officer: ARC/R L CHAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 211 SAN JOSE STATE UNIVERSITY **1961**
TROPOSHERIC – STRATOSPHERIC MEASUREMENT STUDIES
09/22/1987 – 04/30/1998 FY97: $125,562 Total: $1,352,658
Prin. Invest.: J GOODMAN, S W BOWEN
Tech. Officer: ARC/T V BUI, ARC/R S HIPSKIND
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 315 SAN JOSE STATE UNIVERSITY **1962**
AN INVESTIGATION OF CLEAR AIR TURBULENCEINCIDENTS INVOLVING WIDE BODIED AIRCRAFT
11/01/1987 – 10/14/1996 FY97: –$1 Total: $334,993
Prin. Invest.: P F LESTER
Tech. Officer: ARC/R E BACH, ARC
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 327 SAN JOSE STATE UNIVERSITY **1963**
AERO–SPACE HUMAN FACTORS
10/01/1984 – 11/30/1997 FY97: $1,225,620 Total: $11,378,885
Prin. Invest.: K JORDAN, K JORDAN
Tech. Officer: ARC/R K DISMUKES
CASE Category: 69 – PSYCHOLOGY, OTHER

NCC 2 466 SAN JOSE STATE UNIVERSITY **1964**
STUDIES OF PLANETARY ATMOSPHERES ASSOCIATED WITH EXPERIMENTS ON THE GALILEO JUPITER PROBE EXPERIMEN
03/01/1987 – 11/30/1997 FY97: $120,065 Total: $1,180,133
Prin. Invest.: B RAGENT, J GOODMAN
Tech. Officer: ARC/L E LASHER, ARC/R E YOUNG
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 2 471 SAN JOSE STATE UNIVERSITY **1965**
STUDIES OF THE ATMOSPHERE OF VENUS AND WORK ON THEATMOSPHERIC STRUCTURE EXPERIMENT OF THE GALILEO JU
04/01/1987 – 06/30/1998 FY97: $105,748 Total: $1,097,334
Prin. Invest.: P LESTER, A SEIFF
Tech. Officer: ARC/L E LASHER, ARC/R E YOUNG
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 665 SAN JOSE STATE UNIVERSITY **1966**
RADIATIVE TRANSFER MODELING
04/20/1990 – 10/31/1996 FY97: –$40 Total: $755,220
Prin. Invest.: P HAMILL, S A KINNE
Tech. Officer: ARC/O B TOON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 687 SAN JOSE STATE UNIVERSITY **1967**
"OBSERVATIONAL STUDY OF SOLAR SYSTEM PLASMAS"
07/31/1990 – 07/14/1998 FY97: $112,532 Total: $890,284
Prin. Invest.: P HAMILL, P R GAZIS
Tech. Officer: ARC/A BARNES
CASE Category: 11 – ASTRONOMY

NCC 2 723 SAN JOSE STATE UNIVERSITY **1968**
BEHAVIORAL AND PHYSIOLOGICAL EFFECTS OF HINDLIBM UNLOADING IN RATS
07/26/1991 – 10/31/1997 FY97: $80,000 Total: $884,657
Prin. Invest.: R A FOX, F D'AMELIO, L F ENG
Tech. Officer: ARC/M L CORCORAN, ARC/N G DAUNTON
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 2 756 SAN JOSE STATE UNIVERSITY **1969**
SIMULATION OF TROPICAL BIOMASS BURING PLUMES
05/04/1992 – 02/28/1998 FY97: $32,000 Total: $431,992
Prin. Invest.: P HAMILL, J A VASTANO
Tech. Officer: ARC/R B CHATFIELD, ARC/S S WEGENER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 779 SAN JOSE STATE UNIVERSITY **1970**
SCIENTIFIC EVALUATION OF HARDWARE & SUPPORTING STU DIES FOR HARDWARE DEVELOPMENT
02/09/1993 – 12/31/1997 FY97: $95,865 Total: $528,725
Prin. Invest.: D C HOLLEY
Tech. Officer: ARC/C M WINGET, ARC/G C JAHNS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 2 798 SAN JOSE STATE UNIVERSITY **1971**
FLIGHT HUMAN FACTORS
05/12/1993 – 01/31/1998 FY97: $1,298,001 Total: $6,177,673
Prin. Invest.: K P JORDAN, D
Tech. Officer: ARC/R K DISMUKES
CASE Category: 69 – PSYCHOLOGY, OTHER

NCC 2 955 SAN JOSE STATE UNIVERSITY **1972**
ATMOSPHERIC DYNAMICS ON VENUS JUPITER AND SATURN – AN OBSERVATIONAL & ANALYTICAL STUDY
06/24/1996 – 06/30/1998 FY97: $101,038 Total: $178,263
Prin. Invest.: A C BRIDGER
Tech. Officer: ARC/R E YOUNG
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 960 SAN JOSE STATE UNIVERSITY **1973**
STELLAR PROJECT
07/22/1996 – 05/31/1998 FY97: $315,495 Total: $615,495
Prin. Invest.: A RODRIGUEA
Tech. Officer: ARC/B LUNA, ARC/B A CORBIN
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 2 984 SAN JOSE STATE UNIVERSITY **1974**
DYNAMIS OF RINGS & SMALL BODIES
04/01/1997 – 01/31/1998 FY97: $112,055 Total: $112,055
Prin. Invest.: P J HAMILL
Tech. Officer: ARC/K ZAHALE
CASE Category: 11 – ASTRONOMY

NCC 2 5076 SAN JOSE STATE UNIVERSITY **1975**
THE MARTIAN DUST CYCLE: INVESTIGTION OF THE SURFAC E LIFTING COMPONENT
06/30/1994 – 07/21/1996 FY97: –$1,079 Total: $78,919
Prin. Invest.: A BRIDGER
Tech. Officer: ARC/R M HABERLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 5092 SAN JOSE STATE UNIVERSITY **1976**
A THEORETICAL STUDY OF MARTIAN MOUNTAIN WAVES IN I SOSTERIC COORDINATES
08/11/1994 – 08/31/1996 FY97: $0 Total: $64,320
Prin. Invest.: A BRIDGER
Tech. Officer: ARC/R E YOUNG
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 5093 SAN JOSE STATE UNIVERSITY **1977**
COMPARISON OF PIONEER VENUS ENTRY PROBE OBSERVATIO NS TO 3–D GRAVITY WAVE THEORY
08/11/1994 – 08/31/1996 FY97: –$939 Total: $49,121
Prin. Invest.: A BRIDGER
Tech. Officer: ARC/R E WONG
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 5111 SAN JOSE STATE UNIVERSITY **1978**
SURFACE LANDER MISSION TO MARS; SUPPORT VIA ANALYS IS OF THE NASA–AMES MARS GENERAL CIRCULATION MODE
01/22/1995 – 01/21/1997 FY97: $0 Total: $48,444
Prin. Invest.: A BRIDGER
Tech. Officer: ARC/R M HABERLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 5113 SAN JOSE STATE UNIVERSITY **1979**
LONG–TERM ORBITAL EVOLUTION OF SATURN'S RING MOONS
01/12/1995 – 02/27/1997 FY97: $0 Total: $79,958
Prin. Invest.: P HAMILL
Tech. Officer: ARC/J N CUZZI
CASE Category: 11 – ASTRONOMY

NCC 2 5114 SAN JOSE STATE UNIVERSITY **1980**
FORMATION AND EVOLUTION OF THE OORT CLOUD OF COMET S
01/26/1995 – 01/31/1997 FY97: $0 Total: $78,764
Prin. Invest.: P HAMILL
Tech. Officer: ARC/K J ZAHNLE
CASE Category: 11 – ASTRONOMY

NCC 2 5130 SAN JOSE STATE UNIVERSITY **1981**
MICRO–PRESSURE SENSORS FOR FUTURE MARS MISSIONS
06/02/1995 – 05/31/1996 FY97: –$617 Total: $36,940
Prin. Invest.: A BRIDGER
Tech. Officer: ARC/R M HABERLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 5132 SAN JOSE STATE UNIVERSITY **1982**
MEASUREMENT OF STABLE NITROGEN AND SULFUR ISOTOPES
06/02/1995 – 07/31/1997 FY97: $0 Total: $80,000
Prin. Invest.: J F BECKER
Tech. Officer: ARC/J VALENTIN
CASE Category: 13 – PHYSICS

NCC 2 5135 SAN JOSE STATE UNIVERSITY **1983**
DEFINING X–RAY DIFRRACTION PARAMETERS FOR THE DESI GN AND OEPRATION OF A PLANETARY–SURFACE ROCK ANAL
06/02/1995 – 05/31/1996 FY97: –$2 Total: $11,998
Prin. Invest.: E METZGER
Tech. Officer: ARC/D R KOJIRO
CASE Category: 32 – GEOLOGICAL SCIENCE

NCC 2 5142 SAN JOSE STATE UNIVERSITY **1984**
MONITORING OF TIME–DEPENDENT SYSTEM PROFILES BY MU LTIPLIER GAS CHROMATOGRAPHY W/ MAX. ENTROPY DEMO
06/30/1995 – 07/31/1996 FY97: $0 Total: $39,670
Prin. Invest.: J F BECKER
Tech. Officer: ARC/J VALENTIN
CASE Category: 12 – CHEMISTRY

NCC 2 5148 SAN JOSE STATE UNIVERSITY **1985**
MARS GLOBAL SURVEYOR: AEROBRAKING & OBSERVATIONS S UPPORT USING A MARS GLOBAL CIRCULATION MODEL
07/17/1995 – 07/24/1997 FY97: $2,432 Total: $51,056
Prin. Invest.: A BRIDGER
Tech. Officer: ARC/R M HABERLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 5158 SAN JOSE STATE UNIVERSITY **1986**
USEABILITY TESTING AND EVALUATION PLAN FOR THE ARC ON–LINE LIFE SCIENCES DATA ARCHIVE
09/11/1995 – 06/09/1997 FY97: $0 Total: $13,322
Prin. Invest.: D C HOLLEY
Tech. Officer: ARC/P X CALLAHAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 2 5169 SAN JOSE STATE UNIVERSITY **1987**
DATA PROCESSING AND ARCHIVING FOR THE RING–PLANE C ROSSING DATA
01/09/1996 – 12/31/1997 FY97: $24,900 Total: $46,318
Prin. Invest.: D HAMILL
Tech. Officer: ARC/D CUZZI
CASE Category: 11 – ASTRONOMY

NCC 2 5171 SAN JOSE STATE UNIVERSITY **1988**
AN INTERCOMPARISON OF THE DYNAMICAL CORES OF GLOBA L ATMOSPHERIC CICULATION MODELS FOR MARS
02/12/1996 – 02/25/1998 FY97: $39,999 Total: $79,562
Prin. Invest.: D F BRIDGER
Tech. Officer: ARC/D M HABERLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 5172 SAN JOSE STATE UNIVERSITY **1989**
PREDICTION & VERIFICIATION OF DUCTILE CRACK GROWTH IN STRENGHT OVERMATCHED DEFECTIVE BUTT WELDS
03/06/1996 – 03/31/1997 FY97: $0 Total: $6,000
Prin. Invest.: D PIZZO
Tech. Officer: ARC/D L PANONTIN
CASE Category: 46 – MECHANICAL ENGR

NCC 2 5173 SAN JOSE STATE UNIVERSITY **1990**
DIGITAL SIGNAL PROCESSING BASED BIOTELEMETRY RECEI VERS
03/25/1996 – 12/31/1996 FY97: –$2 Total: $19,794
Prin. Invest.: D SINGH
Tech. Officer: ARC/J W HINES
CASE Category: 56 – MEDICL

NCC 2 5179 SAN JOSE STATE UNIVERSITY **1991**
THE COUPLING OF REAL TIME CONTROL OPSOLUTION CHEMISTRY TO PLANT NUTRIENT DEMAND ON DEMAND NUTRIENT
06/13/1996 – 11/30/1997 FY97: $38,828 Total: $38,828
Prin. Invest.: W SAVAGE
Tech. Officer: ARC/D L BUBENHEIM
CASE Category: 55 – AGRICULTURE

NCC 2 5181 SAN JOSE STATE UNIVERSITY **1992**
MARTIAN METEOROLOGY_DETERMINATION OF LARGE SCALE W EATHER PATTERNS FROM SURFACE MEASUREMENTS
06/27/1996 – 07/31/1997 FY97: $35,826 Total: $72,988
Prin. Invest.: D C BRIDGER
Tech. Officer: ARC/R M HABERLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 5203 SAN JOSE STATE UNIVERSITY **1993**
REDUCTION AND ANALYSIS OF METEOROLOGY DATA FROM THE MARS PATHFINDER LANDER
02/04/1997 – 09/30/1997 FY97: $27,997 Total: $27,997
Prin. Invest.: A C BRIDGER
Tech. Officer: ARC/R M HABERLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 5210 SAN JOSE STATE UNIVERSITY **1994**
LASER SPECTROSCOPIC STUDIES OF POLYCYCLIC AROMATIC HYDRO-CARBONS UNDER INTERSTELLAR CONDITIONS
04/03/1997 – 05/31/1998 FY97: $39,963 Total: $39,963
Prin. Invest.: B M STONE
Tech. Officer: ARC/L ALLAMANDOLA
CASE Category: 11 – ASTRONOMY

NCC 2 5230 SAN JOSE STATE UNIVERSITY **1995**
SEASONAL WATER TRANSPORT IN THE ATMOSPHERE OF MARS APPLICA-TIONS OF A MARS GLOBAL SURVEYOR DATA
08/18/1997 – 06/30/1998 FY97: $24,950 Total: $24,950
Prin. Invest.: A F BRIDGER, J L HOLLINGSWORTH
Tech. Officer: ARC/R M HABERLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 5234 SAN JOSE STATE UNIVERSITY **1996**
MINIATURE LASER SPECTROMENTER FOR STABLE ISOTOPE MEA-SUREMENTS
08/12/1997 – 07/31/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: J F BECKER
Tech. Officer: ARC/J R VALENTIN
CASE Category: 12 – CHEMISTRY

NGT 51647 SAN JOSE STATE UNIVERSITY **1997**
GRAD STUD RES PROG
08/05/1996 – 09/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: S WHITE
Tech. Officer: HQ/D HOLLAND
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 5 50115 SAN JOSE STATE UNIVERSITY **1998**
GRADUATE STUDENT RESEARCHERS PROGRAM – STUDENT: C
09/02/1997 – 07/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: S WHITE
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 2 6011 SANTA CLARA UNIVERSITY **1999**
INCREASING MATHEMATICS & SCIENCE ACHIEVEMENT FOR S TUDENTS THROUGH TEACHER TRAINING"
07/11/1997 – 06/30/1998 FY97: $87,095 Total: $87,095
Prin. Invest.: L MAHON
Tech. Officer: ARC/L A SHAWNEE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 2378 SANTA CLARA UNIVERSITY **2000**
BIOLOGICAL IMPLICATIONS OF THE MARS 94 MISSION
04/05/1991 – 12/31/1995 FY97: $0 Total: $82,836
Prin. Invest.: H P KLEIN
Tech. Officer: HQ/J D RUMMEL
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 4245 SANTA CLARA UNIVERSITY **2001**
INCREASING MATHEMATICS AND SCIENCE ACHIEVEMENT
01/11/1995 – 07/31/1997 FY97: $0 Total: $177,728
Prin. Invest.: L MAHON
Tech. Officer: ARC/L SHAWNEE, ARC/B L WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 2 5120 SANTA CLARA UNIVERSITY **2002**
THE SIMULATION OF REAL–TIME SCALABLE COHERENT INTE RFACE
03/17/1995 – 12/14/1996 FY97: –$84 Total: $24,416
Prin. Invest.: Q LI
Tech. Officer: ARC/T GRANT
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 5165 SANTA CLARA UNIVERSITY **2003**
DEVELOPMENT OF ADVANCESD METHODS OF TRAJECTORY & S TRUC-TURAL ANALYSES FOR HYPERSONIC AIRCRAFT
12/04/1995 – 01/31/1997 FY97: $3,000 Total: $30,935
Prin. Invest.: D ARDEMA
Tech. Officer: ARC/M GREEN, ARC/J BOWLES
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5167 SANTA CLARA UNIVERSITY **2004**
DEVELOPMENT OF ADVANCED METHODS OF STRUCTURAL AND TRAJEC-TORY ANALYSES FOR TRANSPORT AIRCRAFT
12/15/1995 – 12/31/1997 FY97: $18,856 Total: $79,798
Prin. Invest.: P ARDEMA
Tech. Officer: ARC/D MIURA, ARC/M H MOORE
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5217 SANTA CLARA UNIVERSITY **2005**
PRESENTATION OF RESEARCH RESULTS ON LAUNCH VEHICLE RE-ENTRY TRAJECTORIES
06/24/1997 – 08/31/1997 FY97: $3,300 Total: $3,300
Prin. Invest.: M ARDEMA
Tech. Officer: ARC/J BOWLES
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 7 1 SIERRA COLLEGE **2006**
DEVELOP MGMT CURRICULUM TO TRAIN ENGINEERING STUDENTS
04/14/1994 – 04/14/1997 FY97: $0 Total: $443,000
Prin. Invest.: M DOBECK
Tech. Officer: NMO/A HUSAIN
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAG 5 1621 SONOMA STATE UNIVERSITY **2007**
ANALYSIS OF THE VARIABLE SOURCES OBSERVED BY IRAS
06/11/1991 – 06/14/1996 FY97: $0 Total: $122,622
Prin. Invest.: G G SPEAR
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2032 SONOMA STATE UNIVERSITY **2008**
LONG TERM MONITORING OF NEUTRON STAR BINARY SYSTEM S USING BATSE
07/17/1992 – 07/31/1998 FY97: –$10,000 Total: $123,943
Prin. Invest.: L R COMINSKY
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2948 SONOMA STATE UNIVERSITY **2009**
MAGNETOSPHERIC ACCRETION IN PSR 1259–63
05/19/1995 – 11/30/1997 FY97: $5,656 Total: $22,132
Prin. Invest.: L COMINSKY
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3324 SONOMA STATE UNIVERSITY **2010**
INVESTIGATION OF X-RAY VARIABILITY FROM 4U1755–33; LACK OF ORBITAL PERIOD EVOLUTION IN EX00748–676
08/07/1996 – 02/14/1998 FY97: $0 Total: $9,003
Prin. Invest.: L COMINSKY
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3702 SONOMA STATE UNIVERSITY **2011**
A TEST OF SPIN–ORBIT COUPLING IN THE 4U0115+63 SYS
02/11/1997 – 01/31/1998 FY97: $36,500 Total: $36,500
Prin. Invest.: L COMINSKY
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4403 SONOMA STATE UNIVERSITY **2012**
CONTINUED ECLIPSE TIMING OF EXO0748–676
05/05/1997 – 05/14/1998 FY97: $5,000 Total: $5,000
Prin. Invest.: L COMINSKY
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NCC 2 930 SONOMA STATE UNIVERSITY **2013**
EXERCISE WITHIN LBNP TO PRODUCE ARTIFICIAL GRAVITY
09/14/1995 – 05/31/1997 FY97: $0 Total: $7,994
Prin. Invest.: W L BODA, PH.D.
Tech. Officer: ARC/A R HARGENS
CASE Category: 56 – MEDICL

NAG 1 1558 STANFORD UNIVERSITY **2014**
NEW APPROACHES TO MULTIDISCIPLINARY DESIGN AND OPTIMIZATION NLPN 93–1136
11/30/1993 – 06/15/1997 FY97: $1 Total: $584,984
Prin. Invest.: I M KROO
Tech. Officer: LARC/J F BARTHELEMY, LARC/J C TOWNSEND
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1863 STANFORD UNIVERSITY **2015**
GTO MICROSATELLITE PHASE A STUDY
08/22/1996 – 12/31/1996 FY97: $1 Total: $30,001
Prin. Invest.: R J TWIGGS
Tech. Officer: LARC/J JUANG, LARC/K BELVIN
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 1 1879 STANFORD UNIVERSITY **2016**
DEVELOPMENT OF A COMPOSITE DAMAGE MODULE FOR THE STAGGS FINITE ELEMENT CODE
11/20/1996 – 04/01/1998 FY97: $50,170 Total: $50,170
Prin. Invest.: F K CHANG, NONE
Tech. Officer: LARC/J H STAMES
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 891 STANFORD UNIVERSITY **2017**
"AN INTEGRATED ENVIRONMENT FOR EFFICIENT FORMAL DESGN AND VERIFICATION"
03/28/1994 – 12/31/1998 FY97: $900,000 Total: $2,492,281
Prin. Invest.: D L DILL
Tech. Officer: ARC/S LAU
CASE Category: 22 – COMPUTER SCIENCE

NAG 2 892 STANFORD UNIVERSITY **2018**
SOFTWARE DEVELOPMENT TECHNOLOGIES FOR REACTIVE, RE AL-TIME, & HYBRID SYSTEMS
03/28/1994 – 12/31/1997 FY97: $600,000 Total: $1,739,565
Prin. Invest.: Z MANNA
Tech. Officer: ARC/S LAU
CASE Category: 22 – COMPUTER SCIENCE

NAG 2 910 STANFORD UNIVERSITY **2019**
INVESTIGATION OF INFRA-RED & NON-EQUILIBRIUM AIR R ADIATION
06/21/1994 – 10/31/1996 FY97: $0 Total: $79,834
Prin. Invest.: C H KRUGER
Tech. Officer: ARC/S R LANGHOFF
CASE Category: 13 – PHYSICS

NAG 2 911 STANFORD UNIVERSITY **2020**
TENSOR FIELD VISUALIZATION
06/23/1994 – 10/31/1997 FY97: $0 Total: $290,652
Prin. Invest.: L HESSELINK
Tech. Officer: ARC/A A VAZIRI/M G YAMASAKI
CASE Category: 22 – COMPUTER SCIENCE

NAG 2 980 STANFORD UNIVERSITY **2021**
RISKS OF EXTRAVEHICULAR ACTIVITIES (EVA'S): CURRE NT SPACE SHUTTLE EMU & EXTENSION TO SPACE.....
05/25/1995 – 12/31/1996 FY97: $0 Total: $51,516
Prin. Invest.: M PATE–CORNELL
Tech. Officer: ARC/B W WEBBON, ARC/B LUNA
CASE Category: 49 – ENGINEERING, OTHER

NAG 2 1065 STANFORD UNIVERSITY **2022**
HEALTH MONITORING OR HELICOPTER TRANSMISSION USING ADAPTIVE SIGNAL PROCESSING OF GEARBOX
07/15/1996 – 05/31/1998 FY97: $52,410 Total: $100,010
Prin. Invest.: T H MENG
Tech. Officer: ARC/E M HUFF
CASE Category: 22 – COMPUTER SCIENCE

NAG 2 1070 STANFORD UNIVERSITY **2023**
COLLABORATION DESIGN WITH HIGH FIDELITY DISCIPLIAN RY MODELS
08/14/1996 – 09/30/1997 FY97: $60,000 Total: $60,000
Prin. Invest.: I M KROO
Tech. Officer: ARC/H MIURA
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 2 1079 STANFORD UNIVERSITY **2024**
INFRARED SIGNATURE MASKING BY AIR PLASMA RADIATION
08/23/1996 – 09/30/1998 FY97: $73,995 Total: $147,947
Prin. Invest.: C H KRUGER, C O LAUX
Tech. Officer: ARC/S R LANGHOFF
CASE Category: 13 – PHYSICS

NAG 2 1113 STANFORD UNIVERSITY **2025**
COMPUTATIONAL STUDY OF FIELD INITIATED SURFACE REA CTIONS FOR SYNTHESES OF DIAMOND & SILICON
02/10/1997 – 12/31/1997 FY97: $92,251 Total: $92,251
Prin. Invest.: C B MUSGRAVE
Tech. Officer: ARC/C LEVIT, ARC/D A BAILEY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 2 1141 STANFORD UNIVERSITY **2026**
PROPOSAL FOR RESEARCH ON UNSTRUCTURED MESH METHODS FOR AERODYNAMIC ANALYSIS & DESIGN
07/21/1997 – 09/30/1998 FY97: $99,049 Total: $99,049
Prin. Invest.: G A JAMESON, J J ALSON
Tech. Officer: ARC/S E CLIFF, ARC/D P BENCZE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1185 STANFORD UNIVERSITY **2027**
QUANTITATIVE PLIF IMAGING IN HIGH–PRESSURE COMBUST ION
06/29/1990 – 09/20/1996 FY97: $0 Total: $875,000
Prin. Invest.: R K HANSON
Tech. Officer: LERC/K S CHUN
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1475 STANFORD UNIVERSITY **2028**
PROBLEMS IN MICROGRAVITY FLUID MECHANICS: THERMOCA PILLARY INSTABILITIES & G–JITTER CONVECTION
04/30/1993 – 01/31/1997 FY97: $0 Total: $355,248
Prin. Invest.: G M HOMSY
Tech. Officer: LERC/B S SINGH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1652 STANFORD UNIVERSITY **2029**
INFLUENCE OF GRAVITY ON NUCLEATION GROWTH STABILITY AND STRUCTURE IN ORDERING SOFT SPHERES
07/13/1994 – 11/12/1996 FY97: $0 Total: $100,000
Prin. Invest.: A P GAST
Tech. Officer: LERC/G A ZIMMERLI
CASE Category: 43 – CHEMICAL ENGR

NAG 3 1843 STANFORD UNIVERSITY **2030**
DROP BREAKUP IN FLOW THROUGH FLIXED BEDS AS MODEL STOCHAS-TIC STRONG FLOWS
05/20/1996 – 05/19/2000 FY97: $80,000 Total: $200,000
Prin. Invest.: E G SHAQTEH
Tech. Officer: LERC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 3 1887 STANFORD UNIVERSITY **2031**
THE INFLUENCES OF GRAVITY OF COLLOIDAL CRYSTALLIZA TION AND FIELD–INDUCED AGGREGRATION
05/29/1996 – 06/30/2000 FY97: $50,000 Total: $150,000
Prin. Invest.: D A RUFF
Tech. Officer: LERC/D D ROSS, LERC/M A SAKSTEDTER
CASE Category: 13 – PHYSICS

NAG 3 1902 STANFORD UNIVERSITY **2032**
STUDY THE EFFECT OF CONFINEMTON TRANSPORT PROPERTI ES BY MAKING USE OF HELIUM ALONG THE LAMBDALINE
06/13/1996 – 06/12/1998 FY97: $28,000 Total: $84,000
Prin. Invest.: J A LIPA
Tech. Officer: LERC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 3 1940 STANFORD UNIVERSITY **2033**
RED–SHIFT TEST OF GENERAL RELATIVITY ON SPACE STAT ION USING SUPERCONDUCTIVITY CAVITY OSCILLATORS
09/10/1996 – 09/09/1998 FY97: $25,010 Total: $125,021
Prin. Invest.: J A LIPA, J TURNEAURE, W W HANSEN
Tech. Officer: LERC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 3 1943 STANFORD UNIVERSITY **2034**
PROBLEMS IN MICROGRAVITIY FLLUID MECHANICS: THERMO CAPILLARY INSTABILITIES & G–JITTER CONVECTION
09/03/1996 – 08/31/2000 FY97: $40,000 Total: $160,000
Prin. Invest.: G M HOMSY
Tech. Officer: LERC/J C DUH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 2393 STANFORD UNIVERSITY **2035**
REMOTE SENSING OF HABITAT EDGES AND THEIR EFFECT O N BIODIV-ERSITY
10/13/1993 – 10/14/1997 FY97: $0 Total: $35,000
Prin. Invest.: P EHRLICH
Tech. Officer: GSFC/M L IMHOFF
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2706 STANFORD UNIVERSITY **2036**
X-RAYS FROM A HIGH VELOCITY PULSAR BOW SHOCK PSR B2224+65
09/07/1994 - 09/14/1997 FY97: $0 Total: $31,928
Prin. Invest.: R ROMANI
Tech. Officer: GSFC/R PETRE
CASE Category: 11 - ASTRONOMY

NAG 5 3077 STANFORD UNIVERSITY **2037**
SOLAR OSCILLATIONS INVESTIGATION - MISSION OBSERVATIONS AND DATA ANALYSIS
09/25/1995 - 09/30/1997 FY97: $5,671,650 Total: $13,257,650
Prin. Invest.: P H SCHERRER
Tech. Officer: GSFC/A I POLAND
CASE Category: 11 - ASTRONOMY

NAG 5 3101 STANFORD UNIVERSITY **2038**
SPECTRAL MODELS OF NEUTRON STAR MAGNETOSPHERES
10/05/1995 - 10/14/1997 FY97: -$35 Total: $81,965
Prin. Invest.: R W ROMANI
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3102 STANFORD UNIVERSITY **2039**
RELATIVISTIC DISKOSEISMOLOGY
10/05/1995 - 10/14/1997 FY97: $0 Total: $120,000
Prin. Invest.: R V WAGONER
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3231 STANFORD UNIVERSITY **2040**
OSSE AND EGRET OBSERVATIONS OF KNOWN AND NEW PULSARS
06/07/1996 - 11/14/1996 FY97: $35 Total: $7,035
Prin. Invest.: R W ROMANI, J M CORDES
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 - ASTRONOMY

NAG 5 3263 STANFORD UNIVERSITY **2041**
HIGH ENERGY RADIATION FROM ROTATION - POWERED PULS ARS (NO COST TIME EXTENSION)
07/01/1996 - 08/31/1997 FY97: $0 Total: $30,883
Prin. Invest.: R W ROMANI, NONE
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3322 STANFORD UNIVERSITY **2042**
INVESTIGATION OF X-RAY VARIABILITY FROM 4U1755-33
08/07/1996 - 02/14/1998 FY97: $0 Total: $15,000
Prin. Invest.: P MICHELSON
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 3332 STANFORD UNIVERSITY **2043**
PROBING THE MATTER DISTRIBUTION IN THE 4U1907+09 S YSTEM WITH ASCA
08/12/1996 - 02/14/1998 FY97: $0 Total: $24,423
Prin. Invest.: P MICHELSON
Tech. Officer: GSFC/N WHITE
CASE Category: 11 - ASTRONOMY

NAG 5 3333 STANFORD UNIVERSITY **2044**
AN ASCA SEARCH FOR PULSAR SIGNATURES IN EGRET UNID ENTIFIED
08/12/1996 - 02/14/1998 FY97: $0 Total: $19,536
Prin. Invest.: R ROMANI
Tech. Officer: GSFC/N WHITE
CASE Category: 11 - ASTRONOMY

NAG 5 3441 STANFORD UNIVERSITY **2045**
DIGITAL TOPOGRAPHY PROPOSAL: LONG TERM MONITORING OF EARTH SURFACE CHANGE WITH ERS-1 AND ERS-2....
01/11/1997 - 10/14/1997 FY97: $82,439 Total: $82,439
Prin. Invest.: H ZEBKER
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 3637 STANFORD UNIVERSITY **2046**
WWW ACCESS TO STANFORD WIDEBAND DATA
02/12/1997 - 02/14/1998 FY97: $10,000 Total: $10,000
Prin. Invest.: D S INAN
Tech. Officer: GSFC/J WILLETT
CASE Category: 13 - PHYSICS

NAG 5 3682 STANFORD UNIVERSITY **2047**
DISTRIBUTION OF THE OBSERVED AND INTRINSIC PROPERT BURSTS
01/15/1997 - 01/14/1998 FY97: $60,000 Total: $60,000
Prin. Invest.: V PETROSIAN
Tech. Officer: GSFC/J N NORRIS
CASE Category: 11 - ASTRONOMY

NAG 5 3732 STANFORD UNIVERSITY **2048**
TOPOGRAPHIC MAPPING IN THE ANTARCTIC ENVIRONMENT U INTERFEROMETRY
02/14/1997 - 02/28/1998 FY97: $56,000 Total: $56,000
Prin. Invest.: D ZEBKER
Tech. Officer: GSFC/R H THOMAS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 3775 STANFORD UNIVERSITY **2049**
DEVELOPMENT OF LOW TEMPERATURE WIDE BAND HIGH SPEED
02/13/1997 - 02/14/1998 FY97: $116,000 Total: $116,000
Prin. Invest.: P CABRERA
Tech. Officer: GSFC/H HASAN
CASE Category: 11 - ASTRONOMY

NAG 5 3906 STANFORD UNIVERSITY **2050**
RADAR STUDIES OF LUNAR AND PLANETARY SURFACES
02/21/1997 - 10/31/1997 FY97: $60,000 Total: $60,000
Prin. Invest.: G TYLER
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 3985 STANFORD UNIVERSITY **2051**
THE EFFECTS OF CHARGED PARTICLE RADIATION ON GRAVI SPACE
03/03/1997 - 02/14/1998 FY97: $52,900 Total: $52,900
Prin. Invest.: D A LIPA
Tech. Officer: GSFC/H HASAN
CASE Category: 11 - ASTRONOMY

NAG 5 4038 STANFORD UNIVERSITY **2052**
PHYSICS OF SOLAR ACTIVITY
02/26/1997 – 02/28/1998 FY97: $166,777 Total: $166,777
Prin. Invest.: D A STURROCK
Tech. Officer: GSFC/WWAGNER
CASE Category: 13 – PHYSICS

NAG 5 4321 STANFORD UNIVERSITY **2053**
RADIO OCCULATION STUDIES OF VENUS' ATMOSPHERE WITH
04/04/1997 – 12/31/1997 FY97: $37,500 Total: $37,500
Prin. Invest.: P L TYLER
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4322 STANFORD UNIVERSITY **2054**
RESEARCH PLANETARY ATMOSPHERES
04/04/1997 – 09/30/1998 FY97: $105,000 Total: $105,000
Prin. Invest.: D R ESHLEMAN
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4554 STANFORD UNIVERSITY **2055**
PITCH ANGLE SCATTERING AND PRECIPITATION OF RADIAT OBLIQUE WHISTLER WAVES
05/05/1997 – 05/14/1998 FY97: $74,000 Total: $74,000
Prin. Invest.: D S INAN
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 4844 STANFORD UNIVERSITY **2056**
SEARCH FOR POLYCYCLIC AROMATIC HYDROCARBONS IN ANT ICROMETEORITE SAMPLES
06/19/1997 – 07/31/1998 FY97: $80,000 Total: $80,000
Prin. Invest.: P N ZARE
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4888 STANFORD UNIVERSITY **2057**
THE WHITE–INYO MOUNTAINS, EASTERN CALIFORNIA: INFL ALTITUDE ON SOIL DEVELOPMENT AND BOTANICAL COVER
08/08/1997 – 06/30/1999 FY97: $50,000 Total: $50,000
Prin. Invest.: G ERNST
Tech. Officer: GSFC/M BALTUCK
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4936 STANFORD UNIVERSITY **2058**
SEARCH FOR UNIQUE ORGANIC BIOMARKERS IN ALH 84001
06/23/1997 – 05/31/1998 FY97: $90,000 Total: $90,000
Prin. Invest.: R N ZARE
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 5109 STANFORD UNIVERSITY **2059**
DEVELOPMENT OF GLAST, A BROADBAND HIGH–ENERGY GAMMA–RAY TELESCOPE
02/19/1997 – 12/31/1997 FY97: $496,016 Total: $496,016
Prin. Invest.: P F MICHELSON
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 6107 STANFORD UNIVERSITY **2060**
SUPPORT OF THE ECOSYSTEM PHYSIOLOGY COMPONENT OF T AND TERRESTRIAL ECOSYSTEM CORE PROJECT
07/24/1997 – 07/31/1998 FY97: $165,000 Total: $165,000
Prin. Invest.: H MOONEY
Tech. Officer: GSFC/D WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6112 STANFORD UNIVERSITY **2061**
STRUCTURE OF SOLAR MAGNETIC AND VELOCITY FIELDS
07/28/1997 – 06/30/1998 FY97: $24,576 Total: $24,576
Prin. Invest.: D H SCHERRER
Tech. Officer: GSFC/W J WAGNER
CASE Category: 11 – ASTRONOMY

NAG 5 6148 STANFORD UNIVERSITY **2062**
SURFACE DEFORMATION AND TOPOGRAPHIC MEASURMENTS FR Y IN THE PRESENCE OF VEGETATION
08/21/1997 – 08/31/1998 FY97: $64,919 Total: $64,919
Prin. Invest.: H A ZEBKER
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 6167 STANFORD UNIVERSITY **2063**
INVERSIION OF TIME DEPENDENT SPACE GEODETIC DATA
08/01/1997 – 06/30/1998 FY97: $100,002 Total: $100,002
Prin. Invest.: P SEGALL
Tech. Officer: GSFC/H FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 6233 STANFORD UNIVERSITY **2064**
ADVANCED ALGORITHM DEVELOPMENT FOR SPACE –BASED GP INCREMENTALLY FUNDED FY 97 AND 98
09/18/1997 – 09/30/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: J P HOW
Tech. Officer: GSFC/J CROFT
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 5 6264 STANFORD UNIVERSITY **2065**
HEATING, IONIZATION AND RED SPRITES PRODUCED IN TH QUASI ELECTROSTATIC THUNDERCLOUD FIELDS
08/21/1997 – 05/31/1998 FY97: $76,218 Total: $76,218
Prin. Invest.: D S INAN
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 8 1088 STANFORD UNIVERSITY **2066**
ATOM INTERFEROMETRY IN A MICROGRAVITY ENVIRONMENT
09/26/1994 – 06/25/1997 FY97: $0 Total: $140,000
Prin. Invest.: M KASEVICH
Tech. Officer: MSFC/D E NOEVER, MSFC/D CARTER
CASE Category: 11 – ASTRONOMY

NAG 8 1151 STANFORD UNIVERSITY **2067**
LASER SCATTERING TEMOGRAPHY
08/18/1995 – 06/30/1998 FY97: $185,000 Total: $435,000
Prin. Invest.: R S FEIGELSON
Tech. Officer: MSFC/D A REISS
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 1976 STANFORD UNIVERSITY **2068**
STUDIES OF THE IMPULSIVE PHASE OF SOLAR FLARES BAS ED ON SMM AND OTHER DATA
01/20/1990 – 12/31/1996 FY97: $0 Total: $610,530
Prin. Invest.: V PETROSIAN
Tech. Officer: HQ/J D BOHLIN, HQ/S KANE
CASE Category: 13 – PHYSICS

NAGW 2140 STANFORD UNIVERSITY **2069**
RADAR STUDIES OF LUNAR AND PLANETARY SURFACES
05/30/1990 – 10/31/1996 FY97: $0 Total: $336,646
Prin. Invest.: G L TYLER
Tech. Officer: HQ/T A MAXWELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2265 STANFORD UNIVERSITY **2070**
PHYSICS OF SOLAR ACTIVITY
12/14/1990 – 11/30/1997 FY97: $0 Total: $942,555
Prin. Invest.: P A STURROCK
Tech. Officer: HQ/W WAGNER, HQ/K LANG
CASE Category: 13 – PHYSICS

NAGW 2502 STANFORD UNIVERSITY **2071**
NAGW–2502/STANFORD UNIV/STRUCTURE OF SOLAR MAGNETI C AND VELOCITY FIELDS
07/01/1991 – 09/30/1997 FY97: $0 Total: $997,000
Prin. Invest.: P H SCHERRER
Tech. Officer: HQ/W J WAGNER, HQ/K LANG
CASE Category: 45 – ELECTRICAL ENGR

NAGW 3375 STANFORD UNIVERSITY **2072**
SPACEBORNE INSTRUMENT TECHNOLOGY DEVELOPMENT FOR B ISTATIC RADAR STUDIES OF THE PLANETS
02/09/1993 – 12/31/1996 FY97: $0 Total: $490,571
Prin. Invest.: G L TYLER
Tech. Officer: HQ/H C BRINTON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3489 STANFORD UNIVERSITY **2073**
DEVEL. OF A BROADBAND HIGH ENER. GAMMA–RAY TELE. U SING SILI. STRIP DETECTORS
05/13/1994 – 04/30/1997 FY97: $0 Total: $377,995
Prin. Invest.: P F MICHELSON
Tech. Officer: HQ/L J KALUZIENSKI, HQ/A N BUNNER
CASE Category: 11 – ASTRONOMY

NAGW 3629 STANFORD UNIVERSITY **2074**
ANALYSES AT HIGH SPETIAL RESOLUTION OF ORGANIC MOL ECULES IN EXTRATERRESTRIAL SAMPLES
06/03/1993 – 07/31/1997 FY97: $80,110 Total: $233,993
Prin. Invest.: R ZARE
Tech. Officer: HQ/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 4212 STANFORD UNIVERSITY **2075**
SUPPORT OF THE ECOSYSTEM PHYSIOLOGY COMPONENT OF THE IGBP GLOBAL CHANGE AND TERRESTRIAL ECOSYSTEMS
12/16/1994 – 07/31/1997 FY97: $0 Total: $271,500
Prin. Invest.: H A MOONEY
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4262 STANFORD UNIVERSITY **2076**
SURFACE COMPOSITION OF PRIMITIVE ASTEROIDS
01/23/1995 – 06/30/1996 FY97: –$12,854 Total: $0
Prin. Invest.: R WAGNER
Tech. Officer: HQ/J RAHE
CASE Category: 11 – ASTRONOMY

NAGW 4341 STANFORD UNIVERSITY **2077**
RADIO OCCULTATION STUDIES OF VENUS' ATMOSPHERE WITH MAGEL-LAN
03/18/1995 – 12/31/1996 FY97: $37,500 Total: $75,000
Prin. Invest.: G L TYLER
Tech. Officer: HQ/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4466 STANFORD UNIVERSITY **2078**
RESTORATION AND ARCHIVING OF WIDE BAND WAVE DATA FROM THE DE–1 AND ISEE–1 SATELLITE
05/04/1995 – 04/30/1997 FY97: $0 Total: $34,999
Prin. Invest.: U S INAN
Tech. Officer: HQ/J WILLET
CASE Category: 45 – ELECTRICAL ENGR

NAGW 4526 STANFORD UNIVERSITY **2079**
HIGH ENERGY RADIATION FORM ROTATION–POWERED PULSAR
06/16/1995 – 09/30/1997 FY97: $0 Total: $27,700
Prin. Invest.: R ROMANI
Tech. Officer: HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 4738 STANFORD UNIVERSITY **2080**
LIGHTNING INDUCED HEATING OF THE LOWER IONOSPHERE AND THE MECHANISM OF UPWARD DISCHARGES
09/06/1995 – 05/31/1997 FY97: $0 Total: $112,994
Prin. Invest.: U S INAN
Tech. Officer: HQ/M M MELLOTT
CASE Category: 13 – PHYSICS

NAGW 4746 STANFORD UNIVERSITY **2081**
THE GAMMA–RAY LARGE AREA SPACE TELESCOPE (GLAST)
09/08/1995 – 11/30/1996 FY97: $0 Total: $84,000
Prin. Invest.: P E MICHELSON
Tech. Officer: HQ/M KAPLAN, HQ/D W WEEDMAN
CASE Category: 13 – PHYSICS

NAGW 4863 STANFORD UNIVERSITY **2082**
A PROPOSAL TO STUDY THE EFFECTS OF CHARGED PARTICL E RADI-ATION ON GRAVITATIONAL SENSORS IN SPACE
11/21/1995 – 06/30/1997 FY97: $0 Total: $51,712
Prin. Invest.: J A LIPA
Tech. Officer: HQ/L TAFF, HQ/D W WEEDMAN
CASE Category: 13 – PHYSICS

NAGW 4878 STANFORD UNIVERSITY **2083**
CLEMENTINE BISTATIC RADAR DATA ANALYSIS
12/11/1995 – 12/31/1997 FY97: $0 Total: $167,000
Prin. Invest.: G TYLER
Tech. Officer: HQ/J M BOYCE, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 4943 STANFORD UNIVERSITY **2084**
TOPOGRAPHIC MAPPING IN THE ANTARTIC ENVIRONMENT US ING RADARSAT
03/22/1996 – 09/30/1997 FY97: $0 Total: $52,956
Prin. Invest.: H ZEBKER
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 5116 STANFORD UNIVERSITY **2085**
UPLINK RADIO INSTRUMENT DEVELOPMENT
07/22/1996 – 09/30/1997 FY97: $0 Total: $120,729
Prin. Invest.: G TYLER
Tech. Officer: HQ/T KOSTIUK, HQ/H C BRINTON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 5156 STANFORD UNIVERSITY **2086**
THEORY/RADIATION BELT LOSSES VIA WAVE ARTICLE INTERACTIONS
11/01/1996 – 05/14/1997 FY97: $72,000 Total: $72,000
Prin. Invest.: U S INAN
Tech. Officer: HQ/J D BOHLIN, HQ/G L WITHBROE
CASE Category: 13 – PHYSICS

NAGW 5223 STANFORD UNIVERSITY **2087**
RESEARCH IN PLANETARY ATMOSPHERES
11/04/1996 – 09/30/1997 FY97: $100,000 Total: $100,000
Prin. Invest.: V R ESHLEMAN
Tech. Officer: HQ/J BERGSTRALH, HQ/H C BRINTON
CASE Category: 11 – ASTRONOMY

NAS 5 30386 STANFORD UNIVERSITY **2088**
MICHAELSON DOPPLER IMAGER ISTP SOHO PROGRAM
11/01/1988 – 03/31/1996 FY97: $0 Total: $59,490,719
Prin. Invest.: R H SCHERRER
Tech. Officer: GSFC/J GERVIN
CASE Category: 13 – PHYSICS

NAS 5 31726 STANFORD UNIVERSITY **2089**
EOS – "BIOSPHERE–ATMOSPHERE INTERACTIONS" STUDY
10/24/1991 – 12/31/1999 FY97: $173,500 Total: $974,200
Prin. Invest.: H MOONEY, P VITOUSEK
Tech. Officer: GSFC/P SELLERS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 96085 STANFORD UNIVERSITY **2090**
ALGORITHM DEVELOPMENT & TESTING
08/09/1996 – 10/08/1997 FY97: $0 Total: $99,799
Prin. Invest.: J HOW
Tech. Officer: GSFC/F BAUER
CASE Category: 41 – AERONAUTICAL ENGNR

NAS 8 36125 STANFORD UNIVERSITY **2091**
GRAVITY PROBE B SHUTTLE FLIGHT EXPERIMENT ENGINEERING DEVELOPMENT (GP8B) PHASE I DEFINITION
03/29/1985 – 03/31/1996 FY97: $0 Total: $188,270,173
Prin. Invest.: C W EVERITT, B W PARKINSON, W FAIRBANK
Tech. Officer: MSFC/R ISE, MSFC/R GEVEDEN
CASE Category: 13 – PHYSICS

NAS 8 39225 STANFORD UNIVERSITY **2092**
GRAVITY PROBE B SCIENCE MISSION INTERIM CONTRACT
01/18/1995 – 12/31/1997 FY97: $57,906,825 Total: $148,042,177
Prin. Invest.: C W EVERITT, B PARKINSON
Tech. Officer: MSFC/R S GEVEDEN, MSFC/B RANDOLPH
CASE Category: 13 – PHYSICS

NAS 9 97120 STANFORD UNIVERSITY **2093**
TECHNOLOGY TO DEMO CAPABILITY FOR RELATIVE POSITIO N/ATTITUDE DETERMINATION BETWEEN FREE MOVING ...
04/07/1997 – 10/31/1997 FY97: $252,940 Total: $252,940
Prin. Invest.: J P HOW
Tech. Officer: JSC/J D WAGENKNECHT
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 1 253 STANFORD UNIVERSITY **2094**
NEW ARCHITECTURES FOR MULTIDISCIPLINARY DESIGN AND OPTIMIZATION
04/14/1997 – 04/13/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: I KROO, L L GREEN
Tech. Officer: LARC/L L GREEN
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 55 STANFORD UNIVERSITY **2095**
THE RESEARCH AND TRAINING ACTIVITIES FOR THE JOIN INSTITUTE FOR AERONAUTICS AND ACOUSTICS"
12/01/1979 – 09/30/1997 FY97: $378,500 Total: $7,666,863
Prin. Invest.: L ROBERTS, L ROBERTS
Tech. Officer: ARC/S S DAVIS, ARC/J D MURPHY
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 307 STANFORD UNIVERSITY **2096**
CENTER OF EXCELLENCE IN MODEL–BASED HUMAN PERFORMA NCE
07/01/1984 – 02/28/1997 FY97: $0 Total: $2,341,932
Prin. Invest.: B A WANDELL
Tech. Officer: ARC/A J AHUMADA, ARC/A B WATSON
CASE Category: 69 – PSYCHOLOGY, OTHER

NCC 2 333 STANFORD UNIVERSITY **2097**
RESEARCH ON CONTROL OF SPACECRAFT MANIPULATOR SYST
11/01/1987 – 10/31/1997 FY97: $500,000 Total: $6,859,798
Prin. Invest.: R H CANNON
Tech. Officer: ARC/M H SIMS, ARC/S LAU
CASE Category: 42 – ASTRONAUTICAL ENGR

NCC 2 460 STANFORD UNIVERSITY **2098**
CENTER FOR TURBULENCE RESEARCH
12/01/1986 – 01/31/1998 FY97: $1,076,645 Total: $12,797,968
Prin. Invest.: P MOIN, W C REYNOLDS
Tech. Officer: ARC/M ROGERS
CASE Category: 46 – MECHANICAL ENGR

NCC 2 721 STANFORD UNIVERSITY **2099**
"THE STRUCTURE, FACIES & DEPOSITION OF SILICEOUS S INTER AROUND THERMAL SPRINGS: IMPLICATIONSFOR..
07/03/1991 – 06/30/1998 FY97: $75,000 Total: $395,228
Prin. Invest.: D R LOWE
Tech. Officer: ARC/D J DES MARAIS, ARC/S CHANG
CASE Category: 32 – GEOLOGICAL SCIENCE

NCC 2 891 STANFORD UNIVERSITY **2100**
LAPLACIAN OF GAUSSIAN SIGHT CORRELATION FOR VISUAL SENSING
03/07/1995 – 12/31/1995 FY97: $0 Total: $198,314
Prin. Invest.: S M ROCK
Tech. Officer: ARC/R A COPPENBARGER
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 899 STANFORD UNIVERSITY **2101**
DEVELOPMENT OF THE TENSORAL COMPUTER LANGUAGE
03/27/1995 – 12/31/1996 FY97: $0 Total: $226,535
Prin. Invest.: J H FERZIGER, E DRESSELHAUS
Tech. Officer: ARC/W J FEIEREISEN
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 908 STANFORD UNIVERSITY **2102**
STUDIES OF PLANETARY RING SYSTEMS
06/26/1995 – 08/31/1998 FY97: $143,955 Total: $406,667
Prin. Invest.: A L TYLER, M R SHOWALTER
Tech. Officer: ARC/J N CUZZI
CASE Category: 11 – ASTRONOMY

NCC 2 951 STANFORD UNIVERSITY **2103**
GCDK–NEW MILLENNIUM
06/05/1996 – 06/30/1997 FY97: $150,000 Total: $250,000
Prin. Invest.: L J LEIFER
Tech. Officer: ARC/S LAU
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 967 STANFORD UNIVERSITY **2104**
MERGED SIVION & GPS CONTROL OF A SEMI–AUTONOMOUS, SMALL HELICOPTER
08/23/1996 – 09/30/1997 FY97: $90,989 Total: $90,989
Prin. Invest.: S M ROCK
Tech. Officer: ARC/R A COPPENBARGER/B SRIDHAR
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 1004 STANFORD UNIVERSITY **2105**
TASK LEVEL CONTROL FOR A FULL SEMI–AUTONOMOUS MISS ION: TEST PLATFORM DEVELOPMENT & DEMONSTRATION
08/19/1997 – 11/30/1997 FY97: $50,000 Total: $50,000
Prin. Invest.: S M ROCK, R CANNON
Tech. Officer: ARC/M H SIMS, ARC/C MINA
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 5088 STANFORD UNIVERSITY **2106**
SERIAL SCANNING & REGISTRATION OF HIGH RESOLUTION QUANTITATIVE COMPUTED TOMOGRAPHY VOLUME SCANS ...
07/28/1994 – 07/31/1996 FY97: $0 Total: $55,379
Prin. Invest.: S A NAPEL
Tech. Officer: ARC/R WHALEN
CASE Category: 56 – MEDICL

NCC 2 5103 STANFORD UNIVERSITY **2107**
NUMERICAL SIMULATION OF AXISYMMETRIC FLOWS
10/03/1994 – 06/30/1996 FY97: $0 Total: $17,457
Prin. Invest.: B J CANTWELL
Tech. Officer: ARC/R D MOSER
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5117 STANFORD UNIVERSITY **2108**
ORBITING INFRARED SPECTRA FLUX STANDARDS
02/24/1995 – 06/30/1997 FY97: $0 Total: $32,417
Prin. Invest.: G SPRINGER, R TWIGGS
Tech. Officer: ARC/F C WITTEBORN
CASE Category: 42 – ASTRONAUTICAL ENGR

NCC 2 5121 STANFORD UNIVERSITY **2109**
BONE ADAPTATION DURING DISUSE AND RECOVERY: A COM BINED THEORETICAL & COMPUTATIONAL MODELING STUDY
03/17/1995 – 03/31/1997 FY97: $0 Total: $55,780
Prin. Invest.: D R CARTER
Tech. Officer: ARC/R T WHALEN
CASE Category: 46 – MECHANICAL ENGR

NCC 2 5138 STANFORD UNIVERSITY **2110**
DIRECT DETERMINATION OF VIBRATIONAL POPULATION ACC OMMODATION RATES IN RAPID EXPANSIONS OF HIGH ENTH
07/18/1995 – 03/31/1997 FY97: $9,725 Total: $61,366
Prin. Invest.: M A CAPPELLI
Tech. Officer: ARC/S P SHARMA
CASE Category: 42 – ASTRONAUTICAL ENGR

NCC 2 5140 STANFORD UNIVERSITY **2111**
TURBULENCE MEASUREMENT ON A FLAP–EDGE MODEL
06/30/1995 – 12/31/1997 FY97: $0 Total: $62,081
Prin. Invest.: P BRADSHAW, B CANTWELL
Tech. Officer: ARC/J C ROSS
CASE Category: 46 – MECHANICAL ENGR

NCC 2 5145 STANFORD UNIVERSITY **2112**
COMPUTATION OF HGIH LIFT SYSTEMS
07/19/1995 – 06/30/1997 FY97: $0 Total: $80,000
Prin. Invest.: B J CANTWELL
Tech. Officer: ARC/D KWAK
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5155 STANFORD UNIVERSITY **2113**
APPLICATION OF P[ARTICLE IMAGE VELOCIMETRY TO A ST UDY OF FLOW ABOUT A MULTI–ELEMENT AIRFOIL
08/21/1995 – 07/31/1996 FY97: –$273 Total: $15,050
Prin. Invest.: D BAGANOFF
Tech. Officer: ARC/J ROSS
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5163 STANFORD UNIVERSITY **2114**
PROPOSAL FOR COOPERATION IN INTERNATIONAL SPACE PR OGRAMS
10/23/1995 – 09/30/1997 FY97: $37,060 Total: $77,060
Prin. Invest.: B LUSIGNAN
Tech. Officer: ARC/G BRIGGS, ARC/L LEMKE
CASE Category: 42 – ASTRONAUTICAL ENGR

NCC 2 5166 STANFORD UNIVERSITY **2115**
ANALYSIS OF THE PHYSICAL PROPERTIES OF DUST SUSPEN DED IN THE MARS ATMOSPHERE
12/07/1995 – 09/30/1997 FY97: $38,396 Total: $74,123
Prin. Invest.: B CANTWELL
Tech. Officer: ARC/C MCKAY, ARC/B TOON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 5184 STANFORD UNIVERSITY **2116**
MARS TOGETHER ROVER SCIENCE STRATEGY
07/02/1996 – 02/28/1997 FY97: $0 Total: $27,082
Prin. Invest.: P LUSIGNAN
Tech. Officer: ARC/DSTOKER
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 2 5186 STANFORD UNIVERSITY **2117**
HIGHLY ACCURATE RECONSTRUCTION OF COMPUTED TOMOGRAPHY VOLUME SCANS FOR THE DETERMINATION IF LOCAL BO
07/25/1996 – 07/31/1998 FY97: $45,000 Total: $125,000
Prin. Invest.: S A NAPEL
Tech. Officer: ARC/R T WHALEN
CASE Category: 56 – MEDICL

NCC 2 5187 STANFORD UNIVERSITY **2118**
NON EQUILIBRIUM TURBULENCE MODELING FOR HIGH LIFT AERODYNAMICS
07/25/1996 – 08/31/1998 FY97: $0 Total: $34,320
Prin. Invest.: P A DURBIN
Tech. Officer: ARC/T J COAKLEY
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5197 STANFORD UNIVERSITY **2119**
SHARP/TREV REENTRY VEHICLE ELECTRONICS DESIGN
12/12/1996 – 12/31/1997 FY97: $39,998 Total: $39,998
Prin. Invest.: B CANTWELL, R TWIGGS
Tech. Officer: ARC/P KOLODZIEJ
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5200 STANFORD UNIVERSITY **2120**
INVESTIGATION OF A PARTICLE/CONTINUM HYBRID SIMULA TION FOR PARALLEL COMPUTATION
12/20/1996 – 12/31/1997 FY97: $39,820 Total: $39,820
Prin. Invest.: D BAGANOFF
Tech. Officer: ARC/W J FEIREISEN
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5202 STANFORD UNIVERSITY **2121**
AUTONOMOUS SATELLITE COMMAND AND CONTROL THROUG THE WORLD WIDE WEB PHASE–3
01/24/1997 – 12/31/1997 FY97: $39,997 Total: $39,997
Prin. Invest.: B CANTWELL, R TWIGGS
Tech. Officer: ARC/K SWANSON
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 5205 STANFORD UNIVERSITY **2122**
DIAGNOSTICS FOR PLASMA ENHANCED CHEMICAL VAPOR DEP OSITION AND ETCH SYSTEMS
02/21/1997 – 07/31/1997 FY97: $55,055 Total: $55,055
Prin. Invest.: M CAPPELLI
Tech. Officer: ARC/S SHARMA
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 2 5211 STANFORD UNIVERSITY **2123**
INTEGRATED COMPUTATIONAL SYSTEM FOR AERODYNAMIC STEERING AND VISUALIZATION
04/03/1997 – 12/31/1997 FY97: $40,000 Total: $40,000
Prin. Invest.: L HESSELINK
Tech. Officer: ARC/D KORSMEYER
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 5225 STANFORD UNIVERSITY **2124**
NOISE CORRELATION OF WINGS AND FLAPS
07/10/1997 – 02/28/1998 FY97: $25,000 Total: $25,000
Prin. Invest.: B J CANTWELL
Tech. Officer: ARC/D KWAK
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5226 STANFORD UNIVERSITY **2125**
AERO–STRUCTURAL OPTIMIZATION OF HSCT CONFIGURATION S IN TRANSONIC AND SUPERSONIC
07/08/1997 – 09/30/1998 FY97: $50,755 Total: $50,755
Prin. Invest.: J J ALONSI, G A JAMESON
Tech. Officer: ARC/D P BENCZE, ARC/S E CLIFF
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 5 95 STANFORD UNIVERSITY **2126**
CELESTIAL GAMMA RAY STUDY
07/13/1995 – 08/31/1997 FY97: $0 Total: $1,076,796
Prin. Invest.: P MICHELSON
Tech. Officer: GSFC/C E FICHTEL
CASE Category: 11 – ASTRONOMY

NCC 5 214 STANFORD UNIVERSITY **2127**
GLAST – SUPPORT OF GAMMA–RAY LARGE AREA SPACE TELE CONCEPT STUDY ACTIVITIES
07/03/1997 – 06/30/1998 FY97: $36,871 Total: $36,871
Prin. Invest.: P F MICHELSON
Tech. Officer: GSFC/N GEHRELS
CASE Category: 11 – ASTRONOMY

NGT 30233 STANFORD UNIVERSITY **2128**
GLOBAL CHANGE FELLOWSHIP AWARD
10/06/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: P VITOUSEK
Tech. Officer: HQ/D E WICKLAND, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30254 STANFORD UNIVERSITY **2129**
GLOBAL CHANGE FELLOWSHIP AWARD
10/06/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: C B FIELD
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30281 STANFORD UNIVERSITY **2130**
GLOBAL CHANGE FELLOWSHIP AWARD
10/06/1994 – 02/28/1998 FY97: $0 Total: $66,000
Prin. Invest.: U S INAN
Tech. Officer: HQ/J S THEON, HQ/G ASRAR
CASE Category: 33 – OCEANOGRAPHY

NGT 51056 STANFORD UNIVERSITY **2131**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/25/1993 – 12/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: R H CANNON
Tech. Officer: JSC/SGOLDSTEIN
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51153 STANFORD UNIVERSITY **2132**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/25/1993 – 09/14/1996 FY97: $0 Total: $66,000
Prin. Invest.: J LIPA
Tech. Officer: HQ/D A HOLLAND
CASE Category: 13 – PHYSICS

NGT 51238 STANFORD UNIVERSITY **2133**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/08/1994 – 06/30/1998 FY97: $0 Total: $66,000
Prin. Invest.: M CAPPELI
Tech. Officer: LERC/FMONTEGANI
CASE Category: 46 – MECHANICAL ENGR

NGT 51285 STANFORD UNIVERSITY **2134**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/06/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: J OLIGER
Tech. Officer: HQ/D HOLLAND
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 51308 STANFORD UNIVERSITY **2135**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/23/1994 – 12/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: D CANTWELL
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 51344 STANFORD UNIVERSITY **2136**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/08/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: G M HOMSY
Tech. Officer: HQ/G ALESANE
CASE Category: 43 – CHEMICAL ENGR

NGT 70330 STANFORD UNIVERSITY **2137**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
07/07/1993 – 12/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: D BERSHADER
Tech. Officer: HQ/D K RUSSELL
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 70340 STANFORD UNIVERSITY **2138**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
06/30/1993 – 07/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: L TYLER
Tech. Officer: HQ/D K RUSSELL
CASE Category: 45 – ELECTRICAL ENGR

NGT 70348 STANFORD UNIVERSITY **2139**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
08/12/1993 – 12/31/1996 FY97: –$1 Total: $65,999
Prin. Invest.: O KHATIB
Tech. Officer: HQ/D K RUSSELL
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 70364 STANFORD UNIVERSITY **2140**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
09/11/1993 – 09/30/1997 FY97: $0 Total: $88,000
Prin. Invest.: A WALKER
Tech. Officer: HQ/D K RUSSELL
CASE Category: 13 – PHYSICS

NGT 70405 STANFORD UNIVERSITY **2141**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
11/07/1994 – 09/05/1997 FY97: $0 Total: $66,000
Prin. Invest.: L LEIFER
Tech. Officer: HQ/D K RUSSELL
CASE Category: 46 – MECHANICAL ENGR

NGT 2 52207 STANFORD UNIVERSITY **2142**
TASK–LEVEL CONTROL FOR A REDUNDANT MANIPULATOR
09/14/1995 – 06/30/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: R H CANNON, G A HUNT
Tech. Officer: ARC/M H SIMS, ARC/S LAU
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 2 52208 STANFORD UNIVERSITY **2143**
INTELLIGENT MACHANISMS AND REHABILITATION ROBOTICS
09/21/1995 – 08/31/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: L LEIFER, M J JOHNSON
Tech. Officer: ARC/M H SIMS, ARC/S LAU
CASE Category: 46 – MECHANICAL ENGR

NGT 2 52209 STANFORD UNIVERSITY **2144**
A DIRECT NUMERICAL SIMULATION OF TURBULENCE IN A C OMPRESS-IBLE BOUNDARY LAYER
09/21/1995 – 06/30/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: P W MAC CORMACK, S E GUARONO
Tech. Officer: ARC/K SHARIFF, ARC/N MANSOUR
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 2 52211 STANFORD UNIVERSITY **2145**
AN INTEGRATED SENSOR TELEMETRY SYSTEM
10/12/1995 – 09/14/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: G KOVACS, R ZOMORA
Tech. Officer: ARC/J W HINES
CASE Category: 45 – ELECTRICAL ENGR

NGT 2 52212 STANFORD UNIVERSITY **2146**
A SUMMER PROGRAM OF NASA SUMMER FACULTY FELLOWSHIP S AT AMES RESEARCH, DRYDEN FLIGHT RESEARCH CENTER
06/04/1996 – 03/31/1998 FY97: $470,000 Total: $983,000
Prin. Invest.: G S SPRINGER, M E TAUBER
Tech. Officer: ARC/M M MOORE, ARC/S A STANLEY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 2 52220 STANFORD UNIVERSITY **2147**
TURBULENCE MEASUREMENTS ON A WING FLAP EDGE & WING SLAT MODEL
09/03/1996 – 06/30/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: B CANTWELL, P J MORIARTY
Tech. Officer: ARC/J C ROSS
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 20412 STANFORD UNIVERSITY **2148**
A SUMMER PROGRAM OF NASA SUMMER FACULTY FELLOWSHIPS $171,216
12/16/1969 – 06/15/1997 FY97: $0 Total: $7,399,691
Prin. Invest.: D BERSHADER, J MAYERS
Tech. Officer: HQ/A S MCGEE, HQ/E T SCHWARTZ
CASE Category: 49 – ENGINEERING, OTHER

NGT 5 30018 STANFORD UNIVERSITY **2149**
ANTHROPOGENIC CHANGES IN GRASSLANDS: CONSEQUENCES ATMOSPHERIC CARBON DIOXIDE AND SPECIES INVASIONS
10/14/1996 – 08/31/1997 FY97: $44,000 Total: $44,000
Prin. Invest.: H MOONEY
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 50044 STANFORD UNIVERSITY **2150**
THE SEARCH FOR A DEFINITIVE BLACK HOLE SIGNATURE: PED MODES OF DISK OSCILLATION
07/17/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: R WAGONER
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50075 STANFORD UNIVERSITY **2151**
SENSING AND CONTROL TECHNOOGIES FOR FORMATION FLYI
08/26/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J HOW
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50101 STANFORD UNIVERSITY **2152**
ASSESSING LINKS BETWEEN BIODIVERSITY AND ECOSYSTEM FORESTS
09/06/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: C FIELD
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90066 STANFORD UNIVERSITY **2153**
USAR
03/20/1997 – 08/14/1997 FY97: $24,000 Total: $24,000
Prin. Invest.: N LOZANO
Tech. Officer: GSFC/R LAWRENCE*Tech. Officer:* NONE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 9 6 STANFORD UNIVERSITY **2154**
DYNAMIC SIMULATION OF ROBOTIC ENVIRONMENTS
06/29/1995 – 06/30/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: O KHATIB
Tech. Officer: JSC/D G SOCKOREZ
CASE Category: 22 – COMPUTER SCIENCE

NGT 9 28 STANFORD UNIVERSITY **2155**
TASK–LEVEL CONTROL FOR SPACE ROBOTIC MANIPULATORS
09/25/1997 – 09/29/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J HOW
Tech. Officer: JSC/D G SICKOREZ
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 1 1816 UNIVERSITY OF CALIFORNIA – BERKELEY **2156**
EXPERIMENTAL STUDY OF COMPLEX VORTEX INTERACTIONS IN THE WAKE OF HIGH ASPECT RATION WINGS
03/20/1996 – 11/30/1996 FY97: $1 Total: $52,501
Prin. Invest.: O SAVAS, D LIEPMANN
Tech. Officer: LARC/K M JONES, LARC/E G WAGGONER
CASE Category: 41 – AERONAUTICALENGNR

NAG 2 208 UNIVERSITY OF CALIFORNIA – BERKELEY **2157**
SPECTROSCOPIC OBSERVATION OF INFRARED LINES NORMAL LY OBSCURED BY ATMOSPHERIC ABSORPTION
11/01/1987 – 10/31/1996 FY97: –$11,386 Total: $2,014,712
Prin. Invest.: C H TOWNES, R GENZEL
Tech. Officer: ARC/L C HAUGHNEY
CASE Category: 11 – ASTRONOMY

NAG 2 243 UNIVERSITY OF CALIFORNIA – BERKELEY **2158**
CONTROL SYSTEMS DESIGN METHODOLOGIES IN COMPUTER A IDED DESIGN ENVIRONMENT
10/01/1983 – 12/31/1996 FY97: –$35 Total: $779,169
Prin. Invest.: S S SASTRY, C DESOER, E POLAK
Tech. Officer: ARC/G MEYER
CASE Category: 49 – ENGINEERING, OTHER

NAG 2 711 UNIVERSITY OF CALIFORNIA – BERKELEY **2159**
"ANTENNA COUPLED MICROBOLOMETER"
07/16/1991 – 12/14/1997 FY97: $65,000 Total: $318,000
Prin. Invest.: P L RICHARDS
Tech. Officer: ARC/C R MCCREIGHT, ARC/R E MCMURRAY
CASE Category: 13 – PHYSICS

NAG 2 1039 UNIVERSITY OF CALIFORNIA – BERKELEY **2160**
TOOLS FOR NONLINEAR CONTROL SYSTEMS DESIGN
04/17/1996 – 12/31/1997 FY97: $85,372 Total: $145,372
Prin. Invest.: S S SASTRY
Tech. Officer: ARC/G MEYER
CASE Category: 49 – ENGINEERING, OTHER

NAG 2 1080 UNIVERSITY OF CALIFORNIA – BERKELEY **2161**
SPECTROSCOPIC OBSERVATIONS OF THE INFRARED LINES N ORMALLY OBSCURED BY ATMOSPHERIC ABSORPTION
08/23/1996 – 10/31/1997 FY97: $0 Total: $41,865
Prin. Invest.: C H TOWNES, R GENZEL
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 1110 UNIVERSITY OF CALIFORNIA – BERKELEY **2162**
IN SITU MEASUREMENTS OF CIONO2,CIO,BRO,NO2 & N2O5 FROM THE ER–2 DURING POLARIS
02/06/1997 – 12/31/1997 FY97: $100,000 Total: $100,000
Prin. Invest.: R C COHEN
Tech. Officer: ARC/E P CONDON, ARC/S S WEGENER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 1135 UNIVERSITY OF CALIFORNIA – BERKELEY **2163**
ALGORITHMS FOR VISUAL SEARCH AND THE PATHFINDER RO VER
06/25/1997 – 10/31/1997 FY97: $25,000 Total: $25,000
Prin. Invest.: L W STARK
Tech. Officer: ARC/M M SIMS
CASE Category: 22 – COMPUTER SCIENCE

NAG 3 1252 UNIVERSITY OF CALIFORNIA – BERKELEY **2164**
A FUNDMENTAL STUDY OF SMOLDERING COMBUSTION IN MIC ROGRAV-ITY
03/15/1991 – 04/13/1997 FY97: $0 Total: $978,602
Prin. Invest.: A C FERNANDEZ-PELLO, P J PAGNI
Tech. Officer: LERC/S OLSON
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1633 UNIVERSITY OF CALIFORNIA – BERKELEY **2165**
MARANGONI EFFECTS IN BOILING OF BINARY FLUID MIXTU RES UNDER MICROGRAVITY
06/24/1994 – 08/31/1996 FY97: –$120 Total: $99,880
Prin. Invest.: V P CAREY
Tech. Officer: LERC/B S SINGH
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1941 UNIVERSITY OF CALIFORNIA – BERKELEY **2166**
FLUID INTERFACE BEHAVIOR UNDER LOW & ZERO GRAVITY CONDITIONS
08/15/1996 – 08/15/1998 FY97: $100,294 Total: $200,433
Prin. Invest.: P CONCUS, R FINN
Tech. Officer: LERC/M M WEISLOGEL
CASE Category: 21 – MATHEMATICS

NAG 3 2026 UNIVERSITY OF CALIFORNIA – BERKELEY **2167**
A FUNDAMENTAL STUDY OF SMOLDERING COMBUSTION IN MI CROGRAV-ITY
03/14/1997 – 03/13/1998 FY97: $169,005 Total: $169,005
Prin. Invest.: A C FERNANDEZ-PELLO
Tech. Officer: LERC/D L URBAN
CASE Category: 49 – ENGINEERING, OTHER

NAG 4 124 UNIVERSITY OF CALIFORNIA – BERKELEY **2168**
CONTROL-ORIENTED NONLINEAR MODELING OF FLUTTER IN FLIGHT SYSTEMS
04/08/1997 – 09/30/1997 FY97: $40,000 Total: $40,000
Prin. Invest.: A PACKARD, P KAMESHWAR
Tech. Officer: DFRC/M BRENNER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 696 UNIVERSITY OF CALIFORNIA – BERKELEY **2169**
A PROPOSAL TO FLY THE EUV/FUV SPECTROMETER ON ORFEUS FOR ASTRO-SPAS I & II
12/18/1992 – 02/28/1998 FY97: $378,676 Total: $2,545,676
Prin. Invest.: M V HURWITZ
Tech. Officer: GSFC/W B JOHNSN
CASE Category: 13 – PHYSICS

NAG 5 959 UNIVERSITY OF CALIFORNIA – BERKELEY **2170**
ELECTRON REFLECTOMETER ADDITION TO THE MAGNETIC FIELDS INVESTIGATION ON THE MARS OBSERVER MISSION
08/01/1987 – 01/14/1998 FY97: $235,200 Total: $1,485,200
Prin. Invest.: R P LIN, C F MCKEE
Tech. Officer: GSFC/M H ACUNA
CASE Category: 13 – PHYSICS

NAG 5 1230 UNIVERSITY OF CALIFORNIA – BERKELEY **2171**
STUDIES OF THE HIGH-LATITUDE INTERSTELLA MEDIUM
08/04/1989 – 10/31/1996 FY97: $0 Total: $195,090
Prin. Invest.: C HEILES
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 1318 UNIVERSITY OF CALIFORNIA – BERKELEY **2172**
RESERACH USING THE COBE SATELLITE
12/14/1989 – 12/31/1997 FY97: $0 Total: $1,964,300
Prin. Invest.: G F SMOOT
Tech. Officer: GSFC/J MATHER
CASE Category: 11 – ASTRONOMY

NAG 5 1360 UNIVERSITY OF CALIFORNIA – BERKELEY **2173**
A STUDY OF THE UNIFORMITY OF THE CATALOG OF GALAXI ES EXTRACTED FROM THE IRAS DAT
04/12/1990 – 11/30/1997 FY97: $96,500 Total: $506,400
Prin. Invest.: J SILK
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 1607 UNIVERSITY OF CALIFORNIA – BERKELEY **2174**
SCIENCE VERIFICATION AND GUARANTEED-TIME OBSERVATI ONS WITH THE HST
05/21/1991 – 12/31/1997 FY97: $70,700 Total: $1,444,620
Prin. Invest.: I KING
Tech. Officer: GSFC/S SOBIESKI
CASE Category: 11 – ASTRONOMY

NAG 5 1727 UNIVERSITY OF CALIFORNIA – BERKELEY **2175**
DETECTION OF GAMMA RAY BURSTS AND OPTICAL TRANSIEN T COUNTERPARTS AND NEUTRON STARS
10/15/1991 – 07/31/1997 FY97: $0 Total: $70,600
Prin. Invest.: K C HURLEY
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 1818 UNIVERSITY OF CALIFORNIA – BERKELEY **2176**
IS THE X-RAY CONTINUUM FROM RADIO-LOUD QUASARS
10/15/1991 – 04/14/1996 FY97: $0 Total: $110,000
Prin. Invest.: H SPINRAD
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 1892 UNIVERSITY OF CALIFORNIA – BERKELEY **2177**
SOFT X-RAY SPECTROSCOPY OF INTERMEDIATE POLARS (UC BSSL 1689/92)
02/10/1992 – 02/14/1996 FY97: –$198 Total: $28,802
Prin. Invest.: S KAHN, NONE
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2009 UNIVERSITY OF CALIFORNIA – BERKELEY **2178**
A SUPERNOVA ALERT IN NEARBY IRAS GALAXIES FOR THE GAMMA RAY OBSERVATORY
07/15/1992 – 10/14/1995 FY97: –$65 Total: $94,935
Prin. Invest.: R D TRIPP
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2088 UNIVERSITY OF CALIFORNIA – BERKELEY **2179**
SUPERNOVA REMNANT BLAST-WAVE INTERACTIONS WITH INT ERSTELLAR CLOUDS: CAST STUDIES FROM CYGNUS LOOP
09/02/1992 – 12/14/1997 FY97: $20,000 Total: $147,912
Prin. Invest.: J R GRAHAM
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2304 UNIVERSITY OF CALIFORNIA – BERKELEY **2180**
HIGH SPATIAL RESOLUTION INVESTIGATIONS OF MICROCHA NNEL PLATE IMAGERY PROPERTIES OF UV DETECTOR
07/07/1993 – 07/14/1996 FY97: $0 Total: $530,056
Prin. Invest.: O H SIEGMUND
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 2351 UNIVERSITY OF CALIFORNIA – BERKELEY **2181**
ELECTRON ACCELERATION IN SOLAR FLARES
08/12/1993 – 11/30/1995 FY97: –$95 Total: $62,905
Prin. Invest.: R P LIN
Tech. Officer: GSFC/J NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2378 UNIVERSITY OF CALIFORNIA – BERKELEY **2182**
EUV SPECTROSCOPY OF THE ACCRETION REGION IN MAGNET IC CAT-ACLYSMIC BINARIES
09/22/1993 – 09/30/1996 FY97: $0 Total: $21,596
Prin. Invest.: S M KAHN
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 2395 UNIVERSITY OF CALIFORNIA – BERKELEY **2183**
A STUDY OF LONG–TERM VARIABILITY IN THE X–RAY EMIS SION PROP-ERTIES OF AM HERCULIS
10/13/1993 – 10/31/1996 FY97: –$36,424 Total: $28,376
Prin. Invest.: S M KAHN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2405 UNIVERSITY OF CALIFORNIA – BERKELEY **2184**
HEAVY ELEMENTS IN HOT DA WHITE DWARFS: A GROUP OF EXCEP-TIONAL EUV–SELECTED OBJECTS
10/22/1993 – 10/31/1995 FY97: –$481 Total: $128,905
Prin. Invest.: C S BOWYER
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 2586 UNIVERSITY OF CALIFORNIA – BERKELEY **2185**
FE L–SHELL LINE EMISSIN FROM SEYFERT GALAXIES
05/05/1994 – 10/31/1996 FY97: $0 Total: $20,000
Prin. Invest.: S KHAN
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2620 UNIVERSITY OF CALIFORNIA – BERKELEY **2186**
LOW METALLICITY IN VERY HOT WHITE DWARFS: IMPLICA TION ON MASS LOSS PROCESSESIN YOUNG D
06/15/1994 – 11/14/1997 FY97: $18,108 Total: $57,072
Prin. Invest.: J DUPUIS
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 2623 UNIVERSITY OF CALIFORNIA – BERKELEY **2187**
EUV STUDIES OF X–RAY ILLUMINATED DISKS IN INTERMED IATE POLARS 2
06/28/1994 – 06/30/1996 FY97: $0 Total: $16,661
Prin. Invest.: M HURWITZ, NONE
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 2624 UNIVERSITY OF CALIFORNIA – BERKELEY **2188**
COORDINATED HST – EUVE OBSERVATIONS OF YZ CMI
06/28/1994 – 10/31/1996 FY97: $0 Total: $11,808
Prin. Invest.: M MATHIODAKIS
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 2636 UNIVERSITY OF CALIFORNIA – BERKELEY **2189**
A TEST FOR THE HOMOGENEITY OF THE HELIUM IONIZATIO N FRACTION IN THE LOCAL ISM.
07/05/1994 – 07/14/1997 FY97: $0 Total: $134,557
Prin. Invest.: S YENNEZ
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 12 – CHEMISTRY

NAG 5 2641 UNIVERSITY OF CALIFORNIA – BERKELEY **2190**
EUV SPECTROSCOPY OF ANOMALOUS AM HER STARS & FLARE S AND INTRASYSTEM GAS IN V4741 TAURII
07/06/1994 – 09/14/1997 FY97: $0 Total: $62,900
Prin. Invest.: O H SIEGMOND
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 2718 UNIVERSITY OF CALIFORNIA – BERKELEY **2191**
CONTINUED ANALYSIS OF GEOTAIL ELECTRIC FIELD DATA
09/07/1994 – 09/30/1997 FY97: $122,500 Total: $261,500
Prin. Invest.: F S MOZER
Tech. Officer: GSFC/D FAIRFIELD
CASE Category: 11 – ASTRONOMY

NAG 5 2815 UNIVERSITY OF CALIFORNIA – BERKELEY **2192**
ANALYSIS OF DATA FROM THE 3–D PLASMA AND ENERGETIC PARTICLE EXPERIMENT ON THE GGS WIND SPACECRAFT
12/12/1994 – 12/14/1997 FY97: $1,123,000 Total: $3,056,300
Prin. Invest.: R P LIN
Tech. Officer: GSFC/K W OGLIVIE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 2819 UNIVERSITY OF CALIFORNIA – BERKELEY **2193**
THEORETICAL STUDIES OF THERMONUCLEAR PROCESSING AN D NON-RADIAL OSCILLATIONS OFACCRETING
12/12/1994 – 12/31/1997 FY97: $61,000 Total: $183,000
Prin. Invest.: L BILDSTEN*Prin. Invest.:* NONE
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2875 UNIVERSITY OF CALIFORNIA – BERKELEY **2194**
A SCIENCE INFRASTRUCTURE FOR ACCESS TO EARTH AND S PACE SCI-ENCE DATA THROUGH THE NATION'S SCIENCE...
01/19/1995 – 01/31/1998 FY97: $400,000 Total: $1,050,000
Prin. Invest.: C CHRISTIAN
Tech. Officer: GSFC/F HASLER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 2997 UNIVERSITY OF CALIFORNIA – BERKELEY **2195**
ANALYSIS OF DATA FROM THE TRANSIENT GAMMA–RAY SPECTROMETER EXPERIMENT ON THE GGS/WIND SPACECRAFT
07/18/1995 – 07/31/1997 FY97: $0 Total: $60,000
Prin. Invest.: K C HURLEY
Tech. Officer: GSFC/B J TEEGARDEN
CASE Category: 11 – ASTRONOMY

NAG 5 3002 UNIVERSITY OF CALIFORNIA – BERKELEY **2196**
COSMOLOGICAL STUDIES OF THE COSMIC MICROWAVE BACKGROUND
07/14/1995 – 07/31/1997 FY97: $55,500 Total: $167,400
Prin. Invest.: J SILK
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3019 UNIVERSITY OF CALIFORNIA – BERKELEY **2197**
PROBING THE MOLECULAR CONTENT OF HIGH LATITUDE GAS
07/21/1995 – 07/31/1997 FY97: $0 Total: $69,200
Prin. Invest.: M HURWITZ
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3073 UNIVERSITY OF CALIFORNIA – BERKELEY **2198**
PHYSICS OF ROTATION POWERED PULSAR AND THEIR NEBULAE
09/25/1995 – 09/30/1997 FY97: $0 Total: $128,000
Prin. Invest.: J ARONS
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3074 UNIVERSITY OF CALIFORNIA – BERKELEY **2199**
BURST ARCSECOND IMAGING AND SPECTROSCOPY
09/25/1995 – 09/30/1996 FY97: $0 Total: $12,000
Prin. Invest.: K C HURLEY
Tech. Officer: GSFC/N GEHRELS
CASE Category: 11 – ASTRONOMY

NAG 5 3081 UNIVERSITY OF CALIFORNIA – BERKELEY **2200**
THEORETICAL STUDIES IN STAR FORMATION
11/01/1995 – 11/14/1998 FY97: $100,000 Total: $150,000
Prin. Invest.: S W STAHLER
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3126 UNIVERSITY OF CALIFORNIA – BERKELEY **2201**
FAR ULTRAVIOLET STUDIES OF SOLAR TRANSIENT PHENOMENA USING THE SOHO SATELLITE
10/19/1995 – 10/31/1997 FY97: $55,400 Total: $250,000
Prin. Invest.: D W SIEGMUND
Tech. Officer: GSFC/D T POLAND
CASE Category: 11 – ASTRONOMY

NAG 5 3146 UNIVERSITY OF CALIFORNIA – BERKELEY **2202**
THEORETICAL STUDIES OF THE EARLY UNIVERSE
11/14/1995 – 11/14/1998 FY97: $200,000 Total: $300,000
Prin. Invest.: I SILK
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3182 UNIVERSITY OF CALIFORNIA – BERKELEY **2203**
MISSION OPERATIONS AND DATA ANALYSIS FOR THE ELECT RIC FIELD EXPERMENT ON POLAR
03/13/1996 – 03/14/1998 FY97: $924,652 Total: $1,806,918
Prin. Invest.: F S MOZER
Tech. Officer: GSFC/R A HOFFMAN
CASE Category: 13 – PHYSICS

NAG 5 3183 UNIVERSITY OF CALIFORNIA – BERKELEY **2204**
OBSERVATIONS OF FLARE STARS WITH ALEXIS
03/15/1996 – 06/14/1997 FY97: $0 Total: $39,500
Prin. Invest.: O H SIEGMUND
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3250 UNIVERSITY OF CALIFORNIA – BERKELEY **2205**
DEVELOPMENT STUDIES FOR THE HESSI: ALTERNATE MIDEX MISSION
06/03/1996 – 06/14/1997 FY97: $0 Total: $100,000
Prin. Invest.: P P LIN
Tech. Officer: GSFC/M D DAVIS
CASE Category: 11 – ASTRONOMY

NAG 5 3280 UNIVERSITY OF CALIFORNIA – BERKELEY **2206**
HIGH RESOLUTION OBSERVATIONS FROM SPACE: NEW INSIG HTS INTO DARK MATTER AND GALAXY FORMATION
07/03/1996 – 07/14/1997 FY97: $0 Total: $95,500
Prin. Invest.: T BROADHURST
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3385 UNIVERSITY OF CALIFORNIA – BERKELEY **2207**
THE FIRST THEORETICAL PREDICTIONS OF THE EXISTENCE OF PHOTON BUBBLE OSCILLATIONS
08/30/1996 – 02/28/1998 FY97: $17,000 Total: $17,000
Prin. Invest.: R KLEIN
Tech. Officer: GSFC/J SWANK
CASE Category: 12 – CHEMISTRY

NAG 5 3399 UNIVERSITY OF CALIFORNIA – BERKELEY **2208**
THE SPECTRAL EVOLUTION OF HOT WHITE DWARFS AS SEEN BY EUVE
09/13/1996 – 09/14/1997 FY97: $0 Total: $59,600
Prin. Invest.: D DUPUIS
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3423 UNIVERSITY OF CALIFORNIA – BERKELEY **2209**
VERIFICATION AND IDENTIFICATION OF EUVE NO–ID SOUR CES
09/18/1996 – 09/30/1997 FY97: $0 Total: $16,971
Prin. Invest.: M L LAMPTON
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 3424 UNIVERSITY OF CALIFORNIA – BERKELEY **2210**
A MULTIWAVELENGTH OBSERVATION OF THE GAS IN V471 T AURI
09/18/1996 – 09/30/1997 FY97: $0 Total: $18,000
Prin. Invest.: O H SIEGMUND
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 3470 UNIVERSITY OF CALIFORNIA – BERKELEY **2211**
DISCOVERING NEW SOURCES WITH THE EUVE RIGHT ANGLE
10/30/1996 – 10/31/1997 FY97: $41,000 Total: $41,000
Prin. Invest.: D CHRISTIAN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3471 UNIVERSITY OF CALIFORNIA – BERKELEY **2212**
DANCING WITH DISKS: TEMPORAL BEHAVIOR OF T TAURI S
10/30/1996 – 10/31/1997 FY97: $52,181 Total: $52,181
Prin. Invest.: G S BASRI
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3499 UNIVERSITY OF CALIFORNIA – BERKELEY **2213**
COSMOLOGICAL STUDIES OF THE COSMIC MICROWAVE BACKG
11/27/1996 – 11/30/1997 FY97: $53,862 Total: $53,862
Prin. Invest.: J I SILK
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3500 UNIVERSITY OF CALIFORNIA – BERKELEY **2214**
ADDING THE MARS '96 GAMMA-RAY BURST EXPERIMENT TO RY NETWORK
11/27/1996 – 11/30/1997 FY97: $36,200 Total: $36,200
Prin. Invest.: K C HURLEY
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3520 UNIVERSITY OF CALIFORNIA – BERKELEY **2215**
SOLAR X-RAY BURSTS AND ELECTRON ACCELERATION DOWN
11/13/1996 – 11/14/1997 FY97: $20,000 Total: $20,000
Prin. Invest.: R P LIN
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3556 UNIVERSITY OF CALIFORNIA – BERKELEY **2216**
A MULTI-WAVELENGTH STUDY OF A COMPLETE SAMPLE OF N
01/04/1997 – 12/14/1997 FY97: $121,000 Total: $121,000
Prin. Invest.: A V FILIPPENKO
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3585 UNIVERSITY OF CALIFORNIA – BERKELEY **2217**
1. ADDING MARS96 GAMMA-RAY BURST EXPER.TO THE 3RD 2. ANALYSIS, PUB. & ARCHIVING OF GAMMA-RAY BURST D
12/11/1996 – 12/14/1997 FY97: $19,500 Total: $19,500
Prin. Invest.: K C HURLEY
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3596 UNIVERSITY OF CALIFORNIA – BERKELEY **2218**
MISSION OPERATIONS AND DATA ANALYSIS FOR THE FAST AURORAL SNAPSHOT EXPLORER (FAST) MISSION
01/25/1997 – 12/31/1997 FY97: $3,598,000 Total: $3,598,000
Prin. Invest.: C W CARLSON
Tech. Officer: GSFC/R F PFAFF, JR.
CASE Category: 12 – CHEMISTRY

NAG 5 3599 UNIVERSITY OF CALIFORNIA – BERKELEY **2219**
GALACTIC BLACK HOLES AND POSITRON ANNIHILATION RAD IATION/ TRANSFERRED FROM NAG5 3397
03/07/1997 – 11/30/1997 FY97: $45,000 Total: $45,000
Prin. Invest.: D SMITH
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3655 UNIVERSITY OF CALIFORNIA – BERKELEY **2220**
EXPERIMENTAL STUDIES OF CORE/MANTLE VOLATILE EQUIL DIFFERENTIATION
03/05/1997 – 11/30/1997 FY97: $68,000 Total: $68,000
Prin. Invest.: R JEANLOZ
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3809 UNIVERSITY OF CALIFORNIA – BERKELEY **2221**
THE DYNAMICS OF PHOTON BUBBLES IN ACCRETION POWERE
01/20/1997 – 01/14/1998 FY97: $70,000 Total: $70,000
Prin. Invest.: R I KLIEN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3811 UNIVERSITY OF CALIFORNIA – BERKELEY **2222**
IMPROVING THE 3RD INTERPLANETARY NETWORK OF GAMMA-
01/14/1997 – 01/14/1998 FY97: $42,000 Total: $42,000
Prin. Invest.: K C HURLEY
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3812 UNIVERSITY OF CALIFORNIA – BERKELEY **2223**
POSITRON ANNIHILATION IN GRS 1915+105
01/14/1997 – 01/14/1998 FY97: $25,000 Total: $25,000
Prin. Invest.: D M SMITH
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3813 UNIVERSITY OF CALIFORNIA – BERKELEY **2224**
HIDDEN COMPANIONS TO EARLY TYPE STARS
01/14/1997 – 01/14/1998 FY97: $6,000 Total: $6,000
Prin. Invest.: N CRAIG
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 3913 UNIVERSITY OF CALIFORNIA – BERKELEY **2225**
PHOTOCATHODE, MICROCHANNEL PLATE AND DELAY LINE TE D UV-VISIBLE DETECTOR SYSTEMS
02/21/1997 – 02/14/1998 FY97: $258,100 Total: $258,100
Prin. Invest.: D H SIEGMUND
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 3916 UNIVERSITY OF CALIFORNIA – BERKELEY **2226**
DEVELOPMENT OF A RADIO TOMOGRAPHY MISSION FOR INVE 'S MAGNETOSPHERE
02/21/1997 – 02/14/1999 FY97: $160,000 Total: $160,000
Prin. Invest.: D E ERGUN
Tech. Officer: GSFC/R HOWARD
CASE Category: 13 – PHYSICS

NAG 5 3919 UNIVERSITY OF CALIFORNIA – BERKELEY **2227**
FIRST YEAR FUNDING FOR PROPOSAL ENTITLED, "DATA SA FOR THE OERSTED SATELLITE,"(DR. P. STARK)
02/12/1997 – 02/14/1998 FY97: $7,500 Total: $7,500
Prin. Invest.: D STARK
Tech. Officer: GSFC/R A LANGEL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3920 UNIVERSITY OF CALIFORNIA – BERKELEY **2228**
USING XTE AS PART OF THE IPN TO DERIVE ACCURATE GR
02/12/1997 – 02/14/1998 FY97: $10,000 Total: $10,000
Prin. Invest.: K HURLEY
Tech. Officer: GSFC/S BARTHELMY
CASE Category: 11 – ASTRONOMY

NAG 5 3941 UNIVERSITY OF CALIFORNIA – BERKELEY **2229**
DEVELOPMENT OF DATA ANALYSIS, COMPRESSION AND VISU LARGE DATA SETS IN ASTROPHYSICS AND COSMOLOGY
03/03/1997 – 02/28/1998 FY97: $154,000 Total: $154,000
Prin. Invest.: D SILK
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 3951 UNIVERSITY OF CALIFORNIA – BERKELEY **2230**
HIGH EFFICIENCY EUV/FUV INTERFEROMETRIC SPECTROSCO
02/12/1997 – 02/14/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: D EDELSTEIN
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 4090 UNIVERSITY OF CALIFORNIA – BERKELEY **2231**
FILTERS FOR THE FAR ULTRAVIOLET REGION
03/18/1997 – 12/31/1997 FY97: $67,000 Total: $67,000
Prin. Invest.: D H SIEGMUND
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 4109 UNIVERSITY OF CALIFORNIA – BERKELEY **2232**
PRE–LAUNCH EQUATOR–S EFFORT
04/01/1997 – 03/31/1998 FY97: $85,000 Total: $85,000
Prin. Invest.: R P LIN
Tech. Officer: GSFC/M HESSE
CASE Category: 13 – PHYSICS

NAG 5 4110 UNIVERSITY OF CALIFORNIA – BERKELEY **2233**
MONITORING OBSERVATIONS OF BLACK HOLE CANDIDATES 1 1758–258
03/24/1997 – 03/31/1998 FY97: $10,017 Total: $10,017
Prin. Invest.: D M SMITH, NONE
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4181 UNIVERSITY OF CALIFORNIA – BERKELEY **2234**
THE PHYSICS OF FLARING ATMOSPHERES
03/19/1997 – 01/14/1998 FY97: $101,000 Total: $101,000
Prin. Invest.: D H FISHER
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 – ASTRONOMY

NAG 5 4194 UNIVERSITY OF CALIFORNIA – BERKELEY **2235**
SILICON DIFFRACTION GRATINGS FOR ULTRAVIOLET APPLI
03/25/1997 – 03/31/1998 FY97: $84,900 Total: $84,900
Prin. Invest.: D V HURWITZ
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 4202 UNIVERSITY OF CALIFORNIA – BERKELEY **2236**
JOVIAN RING SYSTEM
03/17/1997 – 03/31/1998 FY97: $37,000 Total: $37,000
Prin. Invest.: D DE PATER
Tech. Officer: GSFC/W HUEBNER
CASE Category: 11 – ASTRONOMY

NAG 5 4226 UNIVERSITY OF CALIFORNIA – BERKELEY **2237**
IMAGING THE DISKS AROUND YSO'S WITH THE BIMA MM AR
03/25/1997 – 03/31/1998 FY97: $35,000 Total: $35,000
Prin. Invest.: D J WELCH
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4415 UNIVERSITY OF CALIFORNIA – BERKELEY **2238**
AN X–RAY SURVEY OF SYMBIOTIC STARS
05/01/1997 – 04/30/1998 FY97: $15,579 Total: $15,579
Prin. Invest.: L BILDSTEN
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4454 UNIVERSITY OF CALIFORNIA – BERKELEY **2239**
BALLOON–BORNE OBSERVATIONS OF THE ANISOTROPY OF TH KGROUND ON ANGULAR SCALES OF 0.2 TO 40 DEGREES
06/16/1997 – 03/31/1998 FY97: $150,000 Total: $150,000
Prin. Invest.: D L RICHARD
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 4521 UNIVERSITY OF CALIFORNIA – BERKELEY **2240**
CARBON AND SILICON CARBIDE CLUSTERS AND THEIR RELA DUST/ LABORATORY INVESTIGATION OF THE UNIDENTIFIE
05/08/1997 – 04/30/1998 FY97: $180,000 Total: $180,000
Prin. Invest.: D J SAYKALLY
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 4675 UNIVERSITY OF CALIFORNIA – BERKELEY **2241**
CO–INVESTIGATOR PARTICIPATION IN THE MARS 94/96 MI ARS–SOLAR WIND INTERACTION:TOPSIDE SOUNDER AND MA
06/27/1997 – 01/31/1998 FY97: $15,000 Total: $15,000
Prin. Invest.: D LUHMANN
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4758 UNIVERSITY OF CALIFORNIA – BERKELEY **2242**
A ROSAT–HRI IMAGE OF THE CYGNUS LOOP
06/17/1997 – 06/30/1998 FY97: $8,100 Total: $8,100
Prin. Invest.: J R GRAHAM
Tech. Officer: GSFC/R PETRE/
CASE Category: 11 – ASTRONOMY

NAG 5 4790 UNIVERSITY OF CALIFORNIA – BERKELEY **2243**
A SEARCH FOR NONTHERMAL X–RAY EMISSION FROM RADIO
06/17/1997 – 06/30/1998 FY97: $22,700 Total: $22,700
Prin. Invest.: J ARONS
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4851 UNIVERSITY OF CALIFORNIA – BERKELEY **2244**
SOLIDS IN NEBULAR DISKS
06/26/1997 – 03/31/1998 FY97: $45,000 Total: $45,000
Prin. Invest.: D H SHU
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4865 UNIVERSITY OF CALIFORNIA – BERKELEY **2245**
A HARD X–RAY SURVEY OF RADIO–LOUD AGNS
07/08/1997 – 06/30/1998 FY97: $17,110 Total: $17,110
Prin. Invest.: A V FILIPPENKO
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4882 UNIVERSITY OF CALIFORNIA – BERKELEY **2246**
TOO OBSERVATIONS OF SOFT GAMMA REPEATERS
07/15/1997 – 07/14/1998 FY97: $5,000 Total: $5,000
Prin. Invest.: K HURLEY
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4884 UNIVERSITY OF CALIFORNIA – BERKELEY **2247**
PAH EMISSION BANDS IN SELECTED PNE
07/28/1997 – 07/31/1998 FY97: $75,000 Total: $75,000
Prin. Invest.: M COHEN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4898 UNIVERSITY OF CALIFORNIA – BERKELEY **2248**
KINETIC ANALYSIS OF LANGMUIR WAVE PACKETS IN THE E
06/20/1997 – 06/30/1998 FY97: $62,000 Total: $62,000
Prin. Invest.: D E ERGUN
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 4899 UNIVERSITY OF CALIFORNIA – BERKELEY **2249**
THE FORMATION AND MAINTENANCE OF THE ZONAL WINDS O
06/20/1997 – 04/30/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: D S MARCUS
Tech. Officer: GSFC/S HOWARD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4979 UNIVERSITY OF CALIFORNIA – BERKELEY **2250**
MARS/TITAN/MOON SOLAR WIND INTERACTIONS
07/09/1997 – 07/14/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: D G LUHMANN
Tech. Officer: GSFC/S HOWARD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4992 UNIVERSITY OF CALIFORNIA – BERKELEY **2251**
HISTORICAL STUDIES ON EXTRATERRESTRIAL MATERIALS
06/27/1997 – 12/31/1997 FY97: $150,000 Total: $150,000
Prin. Invest.: D NISHIIZUMI
Tech. Officer: GSFC/D F NAVA
CASE Category: 12 – CHEMISTRY

NAG 5 5092 UNIVERSITY OF CALIFORNIA – BERKELEY **2252**
STUDY OF ULTRAHEAVY COSMIC RAYS WITH HNC ON THE RUSSIAN SPACE STATION MIR
11/14/1996 – 12/31/1997 FY97: $120,000 Total: $120,000
Prin. Invest.: E F FRANCE
Tech. Officer: GSFC/M C NEEDDLEMAN, GSFC/E A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5102 UNIVERSITY OF CALIFORNIA – BERKELEY **2253**
ASTROPHYSICAL GAMMA–RAY SPECTROSCOPY WITH THE HIGH RESOLUTION GAMMA–RAY (HIREGS)
02/11/1997 – 10/31/1997 FY97: $937,600 Total: $937,600
Prin. Invest.: R W LIN
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5107 UNIVERSITY OF CALIFORNIA – BERKELEY **2254**
ECCO: THE EXTREMELY HEAVY COSMIC RAY COMPOSITION OBSERVER
04/02/1997 – 03/31/1999 FY97: $200,000 Total: $200,000
Prin. Invest.: A J WESTPHAL
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5132 UNIVERSITY OF CALIFORNIA – BERKELEY **2255**
HIGH PERFORMANCE MICROCHANNEL PLATE DETECTOR TECHNOLOGIES FOR SOFT X–RAY ASTROPHYSICS
03/13/1997 – 03/31/1998 FY97: $85,000 Total: $85,000
Prin. Invest.: O SIEGMUND
Tech. Officer: GSFC/B FLOWERS
CASE Category: 13 – PHYSICS

NAG 5 5146 UNIVERSITY OF CALIFORNIA – BERKELEY **2256**
DEVELOPMENT OF GAS MICROSTRUCTURE DETECTORS (GMSD) FOR GAMMA–RAY TELESCOPES
07/02/1997 – 12/31/1997 FY97: $149,231 Total: $149,231
Prin. Invest.: C HAILEY
Tech. Officer: GSFC/H NEEDLEMAN
CASE Category: 13 – PHYSICS

NAG 5 6052 UNIVERSITY OF CALIFORNIA – BERKELEY **2257**
MODERN STATISTICAL METHODS FOR HELIOSEISMIC SPECTR
07/28/1997 – 06/30/1998 FY97: $49,800 Total: $49,800
Prin. Invest.: D STARK
Tech. Officer: GSFC/W WAGNER
CASE Category: 13 – PHYSICS

NAG 5 6103 UNIVERSITY OF CALIFORNIA – BERKELEY **2258**
NEW DIRECTIONS IN COMETARY SPECTROSCOPY
07/24/1997 – 07/31/1998 FY97: $53,000 Total: $53,000
Prin. Invest.: D SPINRAD
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 6106 UNIVERSITY OF CALIFORNIA – BERKELEY **2259**
LOW–COST MECHANICAL CRYOGENIC COOLERS FOR GERMANIU R SUB-ORBITAL SOLAR MISSIONS
07/24/1997 – 06/30/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: D LIN
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 – ASTRONOMY

NAG 5 6128 UNIVERSITY OF CALIFORNIA – BERKELEY **2260**
THE INTERRELATION OF SOFT AND HARD X–RAY EMISSION
08/04/1997 – 06/30/1998 FY97: $85,500 Total: $85,500
Prin. Invest.: D FISHER
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 – ASTRONOMY

NAG 5 6262 UNIVERSITY OF CALIFORNIA – BERKELEY **2261**
RELATIONSHIP TO BURSTY BULK FLOW EVENTS AND SUBSTO
08/21/1997 – 03/31/1998 FY97: $35,000 Total: $35,000
Prin. Invest.: D ANGELOPOULOS
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 6347 UNIVERSITY OF CALIFORNIA – BERKELEY **2262**
TRANSDUCTION OF THE GRAVITY SIGNAL IN MAIZE ROOTS
09/23/1997 – 09/30/1998 FY97: $77,450 Total: $77,450
Prin. Invest.: D FELDMAN
Tech. Officer: GSFC/T K SCOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 6 10 UNIVERSITY OF CALIFORNIA – BERKELEY **2263**
SOUNDING ROCKET RESEARCH PROGRAM
11/01/1980 – 06/30/1998 FY97: –$473 Total: $3,442,476
Prin. Invest.: C W CARLSON, F S MOZER, K A ANDERSON
Tech. Officer: GSFC/W B JOHNSON, GSFC/R H PLESS
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1201 UNIVERSITY OF CALIFORNIA – BERKELEY **2264**
ANALYSIS OF THE SCIENTIFIC BENEFITS & TECHNICAL PATHS
09/18/1995 – 09/30/1997 FY97: $0 Total: $100,000
Prin. Invest.: C R PENNYPACKER
Tech. Officer: MSFC/E E MONTGOMERY
CASE Category: 13 – PHYSICS

NAGW 604 UNIVERSITY OF CALIFORNIA – BERKELEY **2265**
EXPERMINTAL STUDIES PERTAINING TO THE NATURE OF THE EARTH'SCORE
04/15/1984 – 06/30/1997 FY97: $0 Total: $970,168
Prin. Invest.: R JEANLOZ, NONE
Tech. Officer: HQ/J UNDERWOOD, HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1290 UNIVERSITY OF CALIFORNIA – BERKELEY **2266**
STUDY OF PHOTOEMISSION CHARACTERISTICS OF INORGANIC PHOTO-CATH.
05/01/1988 – 09/30/1997 FY97: $0 Total: $1,794,348
Prin. Invest.: O H SIEGMUND
Tech. Officer: HQ/G C CLAYTON
CASE Category: 11 – ASTRONOMY

NAGW 1503 UNIVERSITY OF CALIFORNIA – BERKELEY **2267**
THE SYSTEMATIC INTERPRETATION OF COSMIC RAY DATA
12/28/1988 – 11/30/1996 FY97: $0 Total: $854,000
Prin. Invest.: H J CRAWFORD
Tech. Officer: HQ/W V JONES, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 2029 UNIVERSITY OF CALIFORNIA – BERKELEY **2268**
INSTRUMENT DEVELOPMENT AND SCIENTIFIC APPLICATIONS OF THE EXTREME ULTRAVIOLETIMAGING TELESCOPE ARR
04/02/1990 – 09/30/1998 FY97: $0 Total: $379,000
Prin. Invest.: O SIEGMUND
Tech. Officer: HQ/G CLAYTON
CASE Category: 11 – ASTRONOMY

NAGW 2115 UNIVERSITY OF CALIFORNIA – BERKELEY **2269**
NAGW-2115/UNIV OF CA @ BERKELEY/A SCINTILLATION IM AGING GAS-FILLED HARD X-RAYTELESCOPE (SIGHT)
06/06/1990 – 09/30/1997 FY97: $0 Total: $1,934,890
Prin. Invest.: B SADOBLET
Tech. Officer: HQ/L J KALUZIENSKI, HQ/A N BUNNER
CASE Category: 11 – ASTRONOMY

NAGW 2121 UNIVERSITY OF CALIFORNIA – BERKELEY **2270**
FAR INFRARED ALL-SKY SURVEY
05/18/1990 – 06/30/1997 FY97: $0 Total: $702,000
Prin. Invest.: P RICHARDS
Tech. Officer: HQ/G LEVY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 2413 UNIVERSITY OF CALIFORNIA – BERKELEY **2271**
DYNAMICS OF POLAR CAP ACCRETION ONTO NEUTRON STARS
03/29/1991 – 12/31/1996 FY97: $0 Total: $515,710
Prin. Invest.: J ARONS
Tech. Officer: HQ/G S KUTTER, HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 2478 UNIVERSITY OF CALIFORNIA – BERKELEY **2272**
MULTI WAVELENGTH STUDIES OF HOT DA WHITE DWARFS
05/09/1991 – 09/30/1997 FY97: $0 Total: $427,000
Prin. Invest.: D S FINLEY
Tech. Officer: HQ/G S KUTTER, HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 2592 UNIVERSITY OF CALIFORNIA – BERKELEY **2273**
NAGW-2592/UNIV CA/SOFT X-RAY SPECTROSCOPY OF ACCRETION-POWERED SOURCES
08/07/1991 – 04/30/1996 FY97: $0 Total: $574,300
Prin. Invest.: S M KAHN
Tech. Officer: HQ/G S KUTTER, HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 2640 UNIVERSITY OF CALIFORNIA – BERKELEY **2274**
DEVELOPMENT OF HIGH EFFICIENCY MICROCHANNEL PLATE DETECTORS W/ HIGH SPATIAL RESOLUTION
08/20/1991 – 09/30/1997 FY97: $0 Total: $400,000
Prin. Invest.: O H SIEGMOND
Tech. Officer: HQ/L KALUZIENSKI
CASE Category: 13 – PHYSICS

NAGW 2688 UNIVERSITY OF CALIFORNIA – BERKELEY **2275**
HIGH ENERGY ASTROPHYSICS X-RAY ASTRONOMY RESEARCH AND ANALYSIS PROGRAM
08/20/1991 – 09/30/1996 FY97: $0 Total: $455,000
Prin. Invest.: S M KAHN
Tech. Officer: HQ/L J KALUZIENSKI
CASE Category: 11 – ASTRONOMY

NAGW 2722 UNIVERSITY OF CALIFORNIA – BERKELEY **2276**
THE DERENDIP III PIGGYBACK SETI PROGRAM
09/05/1991 – 12/31/1995 FY97: $0 Total: $221,400
Prin. Invest.: C S BOWYER
Tech. Officer: HQ/J D RUMMEL
CASE Category: 11 – ASTRONOMY

NAGW 2883 UNIVERSITY OF CALIFORNIA – BERKELEY **2277**
SOME NEW DIRECTIONS IN COMETARY SPECTROSCOPY
02/13/1992 – 07/31/1997 FY97: $0 Total: $260,945
Prin. Invest.: H SPINRAD
Tech. Officer: HQ/H C BRINTON
CASE Category: 11 – ASTRONOMY

NAGW 2991 UNIVERSITY OF CALIFORNIA – BERKELEY **2278**
CARBON CLUSTERS AND THEIR RELATIONSHIP TO !NTERSTE LLAR DUST
03/20/1992 – 09/30/1997 FY97: $218,000 Total: $678,000
Prin. Invest.: R J SAYKALLY
Tech. Officer: HQ/L J CAROFF
CASE Category: 11 – ASTRONOMY

NAGW 3027 UNIVERSITY OF CALIFORNIA – BERKELEY **2279**
THEORETICAL STUDIES OF X-RAY SPECTROSCOPY OF ACCRE TION DISKS ASSOCIATED WITH ACTIVE GALACTIC NUCLEI
04/03/1992 – 02/28/1996 FY97: -$1 Total: $164,999
Prin. Invest.: R I KLEIN
Tech. Officer: HQ/L J KALUZIENSKI, HQ/A N BUNNER
CASE Category: 11 – ASTRONOMY

NAGW 3107 UNIVERSITY OF CALIFORNIA – BERKELEY **2280**
PHYSICAL AND CHEMICAL EVOLUTION OF PROTOSTELLAR DI SKS
06/15/1992 – 05/31/1997 FY97: $0 Total: $228,610
Prin. Invest.: S W STAHLER
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3429 UNIVERSITY OF CALIFORNIA – BERKELEY **2281**
THE PHYSICS OF FLARING ATMOSPHERES
03/03/1993 – 04/13/1997 FY97: $0 Total: $387,724
Prin. Invest.: G H FISHER
Tech. Officer: HQ/W J WAGNER, HQ/G WITHROE
CASE Category: 13 – PHYSICS

NAGW 3514 UNIVERSITY OF CALIFORNIA – BERKELEY **2282**
HISTORICAL STUDIES ON EXTRATERRESTRIAL MATERIALS
04/09/1993 – 09/30/1997 FY97: $0 Total: $570,569
Prin. Invest.: K NISHIIZUMI
Tech. Officer: HQ/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3595 UNIVERSITY OF CALIFORNIA – BERKELEY **2283**
INFRARED SPECTROSCOPY OF PROTOSTELLAR WINDS
05/21/1993 – 03/31/1996 FY97: $0 Total: $150,127
Prin. Invest.: F H SHU
Tech. Officer: HQ/J A NUTH III
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3639 UNIVERSITY OF CALIFORNIA – BERKELEY **2284**
HIGH EFFICIENCY FAR ULTRAVIOLET PHOTOCATHODES
06/04/1993 – 06/30/1996 FY97: $0 Total: $135,000
Prin. Invest.: O H SIEGMUND
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 3769 UNIVERSITY OF CALIFORNIA – BERKELEY **2285**
ROLE OF BOREAL VEGETATION IN CONTROLLING ECOSYSTEM PRO-CESSES AND FEEDBACK TO CLIMATE
09/29/1993 – 05/31/1996 FY97: $0 Total: $480,000
Prin. Invest.: F S CHAPIN III, G B BONAN
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3816 UNIVERSITY OF CALIFORNIA – BERKELEY **2286**
NAGW-3816/UNIV CALIF BERKELEY; ASTROPHYSICAL GAMMA RAY SPEC-TROSCOPY W/ THE HI-RESOLUTION GAMMA & HA
11/18/1993 – 10/31/1996 FY97: $220,000 Total: $955,000
Prin. Invest.: R P LIN
Tech. Officer: HQ/L J KALUZIENSKI, HQ/A N BUNNER
CASE Category: 11 – ASTRONOMY

NAGW 3819 UNIVERSITY OF CALIFORNIA – BERKELEY **2287**
NAGW-3819/UNIV CALIF BERKELEY;_ DEVELOPMENT OF LOW REFLEC-TIVITY MATERIALS & COATINGS FOR EUV & FUV
11/30/1993 – 12/31/1996 FY97: $0 Total: $129,000
Prin. Invest.: O H SIEGMUND
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 3823 UNIVERSITY OF CALIFORNIA – BERKELEY **2288**
NAGW-3823/UNIV CALIF BERKELEY; ADVANCED DELAY LINE DETECTOR TECHNOLOGY; 12/1/93 NEW AWARD
11/30/1993 – 09/30/1997 FY97: $0 Total: $255,000
Prin. Invest.: M L LAMPTON
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 3827 UNIVERSITY OF CALIFORNIA – BERKELEY **2289**
GALAXY EVOLUTION
12/17/1993 – 12/31/1996 FY97: $0 Total: $105,000
Prin. Invest.: J I SILK
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 3845 UNIVERSITY OF CALIFORNIA – BERKELEY **2290**
UNIV CALIF BERKELEY; NEW VIEWS OF THE GALAXY USING B STARS
01/14/1994 – 12/31/1996 FY97: $0 Total: $168,500
Prin. Invest.: B Y WELSH
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 3978 UNIVERSITY OF CALIFORNIA – BERKELEY **2291**
KINETIC ANALYSIS OF LOCALIZED LANGMUIR WAVES IN TH E AURORAL ZONE
05/13/1994 – 07/31/1997 FY97: $0 Total: $169,800
Prin. Invest.: R P LIN, NONE
Tech. Officer: HQ/M M MELLOTT, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4185 UNIVERSITY OF CALIFORNIA – BERKELEY **2292**
X-RAY SPECTROSCOPIC LABORATORY ASTROPHYSICS EXPERI MENTS IN SUPPORT OF THE NASA X-RAY ASTRONOMY FLIG
10/31/1994 – 09/30/1997 FY97: $0 Total: $590,000
Prin. Invest.: S M KAHN
Tech. Officer: HQ/L J KALUZIENSKI
CASE Category: 11 – ASTRONOMY

NAGW 4260 UNIVERSITY OF CALIFORNIA – BERKELEY **2293**
END TO END PROBLEMS IN EOSDIS
01/13/1995 – 06/30/1997 FY97: $0 Total: $1,451,605
Prin. Invest.: M STONEBRAKER
Tech. Officer: HQ/R S MCGINNIS
CASE Category: 22 – COMPUTER SCIENCE

NAGW 4265 UNIVERSITY OF CALIFORNIA – BERKELEY **2294**
VUV ACOUSTO-OPTIC SPECTROSCOPY
01/25/1995 – 12/31/1996 FY97: $0 Total: $50,000
Prin. Invest.: J EDELSTEIN
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 4473 UNIVERSITY OF CALIFORNIA – BERKELEY **2295**
TRANSDUCTION OF THE GRAVITY SIGNAL IN MAIZE ROOTS
05/10/1995 – 03/31/1997 FY97: $0 Total: $147,407
Prin. Invest.: L J FELDMAN
Tech. Officer: HQ/T K SCOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4477 UNIVERSITY OF CALIFORNIA – BERKELEY **2296**
GERMANIUM DETECTOR AND ELECTRONICS DEVELOPMENT FOR THE HIGH ENERGY SOLAR IMAGER (HESI)
05/10/1995 – 03/31/1996 FY97: $0 Total: $101,100
Prin. Invest.: R P LIN
Tech. Officer: HQ/W J WAGNER, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4478 UNIVERSITY OF CALIFORNIA – BERKELEY **2297**
THE PHYSICS OF ENERGETIC ELECTRONS AND HEATING IN SOLAR FLARES
05/12/1995 – 08/31/1996 FY97: $0 Total: $30,000
Prin. Invest.: G H FISHER
Tech. Officer: HQ/W J WAGNER, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4600 UNIVERSITY OF CALIFORNIA – BERKELEY **2298**
SOLAR WIND EFFECTS ON ATMOSPHERES OF WEAKLY MAGNET IZED_BODIES: MARS, TITAN, AND THE MOON
07/12/1995 – 09/30/1997 FY97: $70,000 Total: $140,000
Prin. Invest.: J LUHMANN
Tech. Officer: HQ/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAGW 4645 UNIVERSITY OF CALIFORNIA – BERKELEY **2299**
THE FORMATION AND MAINTENANCE OF THE ZONAL WINDS O F JUPITER AND SATURN
07/21/1995 – 04/30/1997 FY97: $0 Total: $100,000
Prin. Invest.: P MARCUS
Tech. Officer: HQ/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAGW 4722 UNIVERSITY OF CALIFORNIA – BERKELEY **2300**
LABORATORY INVESTIGATION OF THE UNIDENTIFIED INFRA RED BANDS USING INFRARED SINGLE PHOTON COUNTING
08/29/1995 – 11/30/1996 FY97: $0 Total: $118,000
Prin. Invest.: R J SAYKALLY
Tech. Officer: HQ/L J CAROFF, HQ/L J CAROLL
CASE Category: 11 – ASTRONOMY

NAGW 4731 UNIVERSITY OF CALIFORNIA – BERKELEY **2301**
THE LYMAN IMAGING TELESCOPE EXPERIMENT (LITE)
09/12/1995 – 05/31/1996 FY97: $0 Total: $50,000
Prin. Invest.: O H SIEGMUND
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 4773 UNIVERSITY OF CALIFORNIA – BERKELEY **2302**
COSMOLOGICAL HELIUM ISOTOPE EUV FEATURE SPECTROMET ER (CHIEFS) AND MINIMAL OPTIC ECHELLE SPECTROMETE
09/16/1995 – 09/30/1997 FY97: $0 Total: $75,000
Prin. Invest.: M V HURWITZ
Tech. Officer: HQ/M KAPLAN, HQ/D W WEEDMAN
CASE Category: 13 – PHYSICS

NAGW 4796 UNIVERSITY OF CALIFORNIA – BERKELEY **2303**
THE SL9 IMPACTS: INVESTIGATION OF THE IMPACT RADIA TION AND ATMOSPHERIC PERTURBATIONS
09/25/1995 – 09/30/1997 FY97: $0 Total: $25,000
Prin. Invest.: I DE PATER
Tech. Officer: HQ/E BARKER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4841 UNIVERSITY OF CALIFORNIA – BERKELEY **2304**
LTSA-95: HIGH RESOLUTION OBSERVATIONS FROM SPACE: NEW INSIGHTS INTO DARK MATTER AND GALAXY
10/18/1995 – 08/31/1996 FY97: $0 Total: $93,100
Prin. Invest.: T BROADHURST
Tech. Officer: HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 4847 UNIVERSITY OF CALIFORNIA – BERKELEY **2305**
CARBON IN THE UNIVERSE: PAHS AND CLUSTERS
10/12/1995 – 07/31/1997 FY97: $70,000 Total: $210,000
Prin. Invest.: R SAYKALLY
Tech. Officer: HQ/M MEYER
CASE Category: 12 – CHEMISTRY

NAGW 4861 UNIVERSITY OF CALIFORNIA – BERKELEY **2306**
HIGH EFFICIENCY EUV/FUV INTERFEROMETRIC SPECTROSCOPY
11/09/1995 – 09/30/1997 FY97: $0 Total: $76,000
Prin. Invest.: J EDELSTEM
Tech. Officer: HQ/L TAFF
CASE Category: 13 – PHYSICS

NAGW 4868 UNIVERSITY OF CALIFORNIA – BERKELEY **2307**
FILTERS FOR THE FAR ULTRAVIOLET REGION
12/04/1995 – 12/30/1996 FY97: $0 Total: $63,400
Prin. Invest.: O W STEGMUND
Tech. Officer: HQ/L TAFF, HQ/D W WEEDMAN
CASE Category: 13 – PHYSICS

NAGW 4958 UNIVERSITY OF CALIFORNIA – BERKELEY **2308**
SILICON DIFFRACTION GRATINGS FOR ULTRAVIOLET APPLI CATIONS
04/02/1996 – 09/30/1997 FY97: $0 Total: $89,800
Prin. Invest.: M V HURWTZ
Tech. Officer: HQ/L TAFF, HQ/D W WEEDMAN
CASE Category: 13 – PHYSICS

NAGW 5019 UNIVERSITY OF CALIFORNIA – BERKELEY **2309**
RELATIONSHIP OF BURSTY BULK FLOW EVENTS AND SUBSTO RMS
03/26/1996 – 09/30/1997 FY97: $0 Total: $34,000
Prin. Invest.: V ANGELOPOULOS
Tech. Officer: HQ/J D BOHLIN, HQ/G L WITHBROE
CASE Category: 13 – PHYSICS

NAGW 5109 UNIVERSITY OF CALIFORNIA – BERKELEY **2310**
SOLIDS IN NEBULAR DISKS
06/11/1996 – 03/31/1997 FY97: $0 Total: $45,000
Prin. Invest.: F H SHU
Tech. Officer: HQ/PROGERS, HQ/H C BRINTON
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5126 UNIVERSITY OF CALIFORNIA – BERKELEY **2311**
THE INTERRELATION OF SOFT AND HARD X-RAY EMISSION DURING SOLAR FLARES
08/14/1996 – 06/30/1997 FY97: $0 Total: $80,400
Prin. Invest.: G H FISHER
Tech. Officer: HQ/W J WAGNER, HQ/G L WITHBROE
CASE Category: 11 – ASTRONOMY

NAGW 5127 UNIVERSITY OF CALIFORNIA – BERKELEY **2312**
KINECTIC ANALYSIS OF LANGMUIR WAVE PACKETS IN THE EARTH'S FORESHOCK
08/07/1996 – 09/30/1997 FY97: $0 Total: $60,000
Prin. Invest.: R E ERGUN
Tech. Officer: HQ/J D BOHLIN, HQ/G L WITHBROE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5133 UNIVERSITY OF CALIFORNIA – BERKELEY **2313**
LARGE SCALE CURRENTS AS A CORONAL HEATING SOURCE
07/22/1996 – 06/30/1997 FY97: $0 Total: $70,800
Prin. Invest.: G H FISHER
Tech. Officer: HQ/W L WAGNER, HQ/G L WITHBROE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5151 UNIVERSITY OF CALIFORNIA – BERKELEY **2314**
FIFTH INTERNATIONAL CONFERENCE ON BIOASTRONOMY
08/23/1996 – 05/31/1997 FY97: $0 Total: $10,000
Prin. Invest.: D J WERTHIMER
Tech. Officer: HQ/M MYER, HQ/H C BRINTON
CASE Category: 11 – ASTRONOMY

NAGW 5198 UNIVERSITY OF CALIFORNIA – BERKELEY **2315**
IMPLEMENTATION AND DEPLOYMENT OF A GENERALIZED SEA RACH TREE FOR MANAGING MULTIPLE DATA TYPES
10/07/1996 – 12/31/1997 FY97: $165,098 Total: $165,098
Prin. Invest.: J M HELLERSTEIN
Tech. Officer: HQ/G ASRAR, HQ/R C HARRISS
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAS 5 29298 UNIVERSITY OF CALIFORNIA – BERKELEY **2316**
GSFC EXTREME ULTRAVIOLET INVESTATION FOR THE EXTREME ULTRAVIOLET EXPLORER
06/19/1986 – 09/07/1996 FY97: $0 Total: $49,117,164
Prin. Invest.: R MALINA
Tech. Officer: GSFC/A J MILLER
CASE Category: 11 – ASTRONOMY

NAS 5 30180 UNIVERSITY OF CALIFORNIA – BERKELEY **2317**
EXTREME ULTRAVIOLET EXPLORER MISSION INVESTIGATION
07/17/1987 – 02/28/1997 FY97: $0 Total: $17,210,982
Prin. Invest.: D HUNTEN
Tech. Officer: GSFC/A SMITH
CASE Category: 11 – ASTRONOMY

NAS 5 30367 UNIVERSITY OF CALIFORNIA – BERKELEY **2318**
ELECTRIC FIELD INVESTIGATION FOR POLAR MISSION
02/16/1989 – 02/24/1998 FY97: $0 Total: $5,255,400
Prin. Invest.: F S MOZER
Tech. Officer: GSFC/W C ANSELM
CASE Category: 13 – PHYSICS

NAS 5 30801 UNIVERSITY OF CALIFORNIA – BERKELEY **2319**
ISTP PROJECT'S ELECTRIC FIELDS & WAVES
07/02/1990 – 07/30/1999 FY97: $450,000 Total: $5,344,000
Prin. Invest.: F MOZER
Tech. Officer: GSFC/L CHRISTENSEN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 31283 UNIVERSITY OF CALIFORNIA – BERKELEY **2320**
FAST AURORAL SNAPSHOT EXPLORER (FAST)
01/10/1991 – 10/10/1996 FY97: –$212,000 Total: $18,314,545
Prin. Invest.: C W CARLSON
Tech. Officer: GSFC/R ALEMAN
CASE Category: 41 – AERONAUTICAL ENGNR

NAS 5 31429 UNIVERSITY OF CALIFORNIA – BERKELEY **2321**
SYSTEM DESIGN PHASE OF REFLECTION GRATING ASSEMBLY
12/28/1990 – 09/30/2000 FY97: $1,793,014 Total: $11,784,866
Prin. Invest.: S KAHN
Tech. Officer: GSFC/R DONNELLY
CASE Category: 41 – AERONAUTICAL ENGNR

NAS 5 32698 UNIVERSITY OF CALIFORNIA – BERKELEY **2322**
STUDY "TOOLS FOR PHOTON EVENT DATA"
09/28/1994 – 08/31/1997 FY97: $0 Total: $140,000
Prin. Invest.: C CHRISTIAN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAS 5 32795 UNIVERSITY OF CALIFORNIA – BERKELEY **2323**
RESEARCH STUDY – ALEXIS DATA CENTER
06/16/1995 – 06/15/1998 FY97: $0 Total: $158,079
Prin. Invest.: H W SIEGMUAL
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAS 5 96092 UNIVERSITY OF CALIFORNIA – BERKELEY **2324**
EOS–BIOSPHERE ATMOSPHERIC INTERACTIONS STUDY
10/11/1996 – 07/31/1999 FY97: $45,000 Total: $45,000
Prin. Invest.: P MATSON
Tech. Officer: GSFC/P SELLERS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCA 2 757 UNIVERSITY OF CALIFORNIA – BERKELEY **2325**
STUDIES OF MESUR AEROSHELL CONFIGURAITON IN HYPERS ONIC RAR-EFIED FLOWS OF C02
11/24/1992 – 03/31/1996 FY97: $0 Total: $40,000
Prin. Invest.: F C HURLBUT, M HOLT, V P CAREY
Tech. Officer: ARC/J A CAVOLOWSKY
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 142 UNIVERSITY OF CALIFORNIA – BERKELEY **2326**
DETECTION IDENTIFICATION AND PRECISE LOCATION OF INFRARED OBJECTS
07/01/1981 – 05/31/1998 FY97: $93,000 Total: $1,399,572
Prin. Invest.: C E HEILES, M COHEN
Tech. Officer: ARC/D GOORVITCH
CASE Category: 11 – ASTRONOMY

NCC 2 548 UNIVERSITY OF CALIFORNIA – BERKELEY **2327**
STAR FORMATION AND THE EVOLUTION OF ELLIPTICAL GALS
07/01/1988 – 12/31/1997 FY97: $237,376 Total: $2,514,301
Prin. Invest.: F H SHU
Tech. Officer: ARC/D J HOLLENBACH, ARC/P CASSER
CASE Category: 11 – ASTRONOMY

NCC 2 757 UNIVERSITY OF CALIFORNIA – BERKELEY **2328**
TELEPRESENCE & ITS RELATIONSHIP TO PERFORMANCE
06/02/1992 – 01/31/1998 FY97: $10,000 Total: $114,234
Prin. Invest.: L STARK
Tech. Officer: ARC/R B WELCH
CASE Category: 69 – PSYCHOLOGY, OTHER

NCC 2 902 UNIVERSITY OF CALIFORNIA – BERKELEY **2329**
UTILIZING THE EUVE INNOVATIVE TECHNOLOGY TESTBED T O REDUCE SATELLITE OPERATIONS COST FOR PRESENT...
05/24/1995 – 09/30/1996 FY97: –$29 Total: $386,577
Prin. Invest.: R F MALINA
Tech. Officer: ARC/D J KORSMEYER
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 909 UNIVERSITY OF CALIFORNIA – BERKELEY **2330**
HUMAN PERFORMANCE IN COORDINATED HAPTIC-VISUAL VIR TUAL ENVIRONMENTS
06/26/1995 – 06/30/1998 FY97: $157,500 Total: $607,500
Prin. Invest.: H KAZERAONI
Tech. Officer: ARC/S R ELLIS
CASE Category: 46 – MECHANICAL ENGR

NCC 2 947 UNIVERSITY OF CALIFORNIA – BERKELEY **2331**
TECHNOLOGY EXPERIMENT DEMONSTRATIONS ON THE RUVE FLIGHT TEST BED
04/16/1996 – 02/28/1998 FY97: $0 Total: $100,000
Prin. Invest.: R E MALINA
Tech. Officer: ARC/D J KORSMEYER
CASE Category: 21 – MATHEMATICS

NCC 2 949 UNIVERSITY OF CALIFORNIA – BERKELEY **2332**
HUMAN FACTORS IN MAN–VEHICLE RESEARCH
04/15/1996 – 12/31/1997 FY97: $100,000 Total: $150,000
Prin. Invest.: L STARK
Tech. Officer: ARC/S R ELLIS
CASE Category: 49 – ENGINEERING, OTHER

NCC 2 966 UNIVERSITY OF CALIFORNIA – BERKELEY **2333**
VALIDATION OF NEW MILLENNIUM TECHNOLOGIES WITH THE EXTREME ULTRAVIOLET EXPLORER OBSERVATORY
08/20/1996 – 06/30/1998 FY97: $0 Total: $300,000
Prin. Invest.: R F MALINA*Prin. Invest.:* NONE
Tech. Officer: ARC/D J KORSMEYER
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 968 UNIVERSITY OF CALIFORNIA – BERKELEY **2334**
MICROMACHINED ACOUSTIC/CHEMIRESISTOR GAS FOR SENSO R ARRAY INCORPORATING THERMALLY ISOLATED HOTPLATE
08/23/1996 – 01/31/1997 FY97: $0 Total: $43,696
Prin. Invest.: R M WHITE
Tech. Officer: ARC/S S WEGENER, ARC/J W HINES
CASE Category: 45 – ELECTRICAL ENGR

NCC 2 972 UNIVERSITY OF CALIFORNIA – BERKELEY **2335**
RESEARCH ON THE APPLICATION OF FUZZY LOGIC & SOFT COMPUTING TO SYSTEMS ANALYSIS & CONTROL
10/22/1996 – 08/31/1997 FY97: $50,000 Total: $50,000
Prin. Invest.: L A ZALEH*Prin. Invest.:* NONE
Tech. Officer: ARC/S LAU, ARC/H CHANG
CASE Category: 21 – MATHEMATICS

NCC 2 998 UNIVERSITY OF CALIFORNIA – BERKELEY **2336**
EYE MOVEMENTS & SCENE INTERPRETATION ALGORITHMS TO ASSIST IN GEOLOGICAL SCIENTIFIC UNDERSTANDING
06/23/1997 – 03/31/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: L W STARK
Tech. Officer: ARC/J N CUZZI
CASE Category: 42 – ASTRONAUTICAL ENGR

NCC 2 999 UNIVERSITY OF CALIFORNIA – BERKELEY **2337**
SYSTEMS FOR AUTONOMOUS DATA ANALYSIS UNDER CONSTRA INED RESOURCES
07/22/1997 – 10/31/1997 FY97: $110,000 Total: $110,000
Prin. Invest.: A R NEWTON
Tech. Officer: ARC/J N CUZZI
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 5035 UNIVERSITY OF CALIFORNIA – BERKELEY **2338**
LOW SPEED MOTION OF A DELTA WING INFLUENCED BY SUR FACE AND JET CONTROLS
02/16/1994 – 07/31/1996 FY97: $0 Total: $80,000
Prin. Invest.: M HOLT, A PACKARD
Tech. Officer: ARC/T L HOLST
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5083 UNIVERSITY OF CALIFORNIA – BERKELEY **2339**
DIAGNOSING ASTRONOMICAL ICES; GAS PHASE CHEMISTRY OF COMETS AND HOT CORES
07/15/1994 – 06/30/1996 FY97: $0 Total: $80,000
Prin. Invest.: I DE PATER
Tech. Officer: ARC/A G TIELENS
CASE Category: 11 – ASTRONOMY

NCC 2 5102 UNIVERSITY OF CALIFORNIA – BERKELEY **2340**
REMOTE IMAGING AND GIS APPLIED TO SCHISTOSOMIASIS CONTROL
09/21/1994 – 11/14/1995 FY97: –$5,175 Total: $34,825
Prin. Invest.: R C SPEAR
Tech. Officer: ARC/D L PETERSON
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NCC 2 5129 UNIVERSITY OF CALIFORNIA – BERKELEY **2341**
THE EVOLUTION OF THE INTERSTELLAR DUST SIZE DISTRI BUTION
05/22/1995 – 06/30/1997 FY97: $0 Total: $80,000
Prin. Invest.: C F MCKEE
Tech. Officer: LARC/A G TIELENS
CASE Category: 11 – ASTRONOMY

NCC 2 5161 UNIVERSITY OF CALIFORNIA – BERKELEY **2342**
DESIGN OF INORGANIC WATER REPELLENT COATINGS FOR T HERMAL PROTECTION INSULATION ON AN AEROSPACE VEHI
09/11/1995 – 09/30/1996 FY97: $0 Total: $39,962
Prin. Invest.: D W FUERSTENAU
Tech. Officer: ARC/D CAGLIOSTRO
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 2 5183 UNIVERSITY OF CALIFORNIA – BERKELEY **2343**
REMOTE IMAGING APPLIED TO SCHISTOSOMIASIS CONTROL THE ANLING RIVER PROJECT
07/02/1996 – 03/31/1997 FY97: $0 Total: $39,990
Prin. Invest.: R C SPEAR, P GONG
Tech. Officer: ARC/D L PETERSON
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NCC 2 5185 UNIVERSITY OF CALIFORNIA – BERKELEY **2344**
EVALUATION OF RELATIVE SENSITIVITY OF SAW AND FLEX URAL PLATE WAVE DEVISES FORATMOSPHERIC SENSING
07/25/1996 – 09/15/1997 FY97: $0 Total: $40,000
Prin. Invest.: R M WHITE
Tech. Officer: ARC/J W HINES
CASE Category: 43 – CHEMICAL ENGR

NCC 2 5190 UNIVERSITY OF CALIFORNIA – BERKELEY **2345**
INVESTIGATION OF MIXING A SUPERSONIC STREAM WITH THE FLOW DOWNSTREAM OF A WEDGE
09/10/1996 – 12/31/1996 FY97: $0 Total: $20,000
Prin. Invest.: P HOLT
Tech. Officer: ARC/J A CAVOLOWSKY
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5192 UNIVERSITY OF CALIFORNIA – BERKELEY **2346**
INTERSTELLAR MOLECULES IN THE PROTOSOLAR NEBULA
12/18/1996 – 10/31/1997 FY97: $40,000 Total: $40,000
Prin. Invest.: I DE PATER
Tech. Officer: ARC/D HOLLENBACH
CASE Category: 11 – ASTRONOMY

NCC 2 5195 UNIVERSITY OF CALIFORNIA – BERKELEY **2347**
DUST IN THE CLOUD AND INTERCLOUDPHASES OF THE INTE RSTELLAR MEDIUM
11/13/1996 – 10/31/1998 FY97: $80,000 Total: $80,000
Prin. Invest.: C F MCKEE
Tech. Officer: ARC/D HOLLENBACH
CASE Category: 11 – ASTRONOMY

NCC 2 5218 UNIVERSITY OF CALIFORNIA – BERKELEY **2348**
CALCULATION OF REACTING GAS FLOWS BY COMPUTATIONAL FLUID DYNAMICS CODE WITH SPACE APPLICATIONS
05/22/1997 – 03/31/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: M HOLT
Tech. Officer: ARC/M LOOMIS
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5227 UNIVERSITY OF CALIFORNIA – BERKELEY **2349**
DATA UNDERSTANDING APPLIED TO OPTIMIZATION
07/08/1997 – 11/30/1997 FY97: $71,980 Total: $71,980
Prin. Invest.: A NEWTON
Tech. Officer: ARC/S LAU
CASE Category: 22 – COMPUTER SCIENCE

NCC 3 329 UNIVERSITY OF CALIFORNIA – BERKELEY **2350**
EQUILIBRIUM FLUID INTERFACE BETWEEN UNDER LOW– AND ZERO–GRAVITY CONDITIONS
11/30/1993 – 03/05/1997 FY97: $0 Total: $284,000
Prin. Invest.: P CONCUS
Tech. Officer: LERC/M WEISLOGEL
CASE Category: 21 – MATHEMATICS

NCC 3 478 UNIVERSITY OF CALIFORNIA – BERKELEY **2351**
FLAMNABILITY DIAGRAMS OF COMBUSTIBLE MATERIALS IN MICROGRAVITY
05/29/1996 – 05/31/2000 FY97: $49,183 Total: $100,414
Prin. Invest.: A C FERNANDEZ–PELLO
Tech. Officer: LERC/H D ROSS
CASE Category: 46 – MECHANICAL ENGR

NCC 5 138 UNIVERSITY OF CALIFORNIA – BERKELEY **2352**
EXTENDED EUVE MISSION
08/21/1996 – 09/30/1997 FY97: $2,930,000 Total: $4,930,000
Prin. Invest.: R MALINA
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NGT 30107 UNIVERSITY OF CALIFORNIA – BERKELEY **2353**
NGT–30107/UNIV CALIF @ BERKELEY/GLOBAL CHANGE FELLOWSHIP PROGRAM
10/21/1992 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: A JUELS
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 22 – COMPUTER SCIENCE

NGT 30165 UNIVERSITY OF CALIFORNIA – BERKELEY **2354**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/24/1993 – 08/31/1996 FY97: $0 Total: $61,000
Prin. Invest.: M E POWER
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30191 UNIVERSITY OF CALIFORNIA – BERKELEY **2355**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/27/1993 – 12/31/1996 FY97: –$23 Total: $65,977
Prin. Invest.: W ALVAREZ
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 30212 UNIVERSITY OF CALIFORNIA – BERKELEY **2356**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/26/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: J HARTE
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 30247 UNIVERSITY OF CALIFORNIA – BERKELEY **2357**
GLOBAL CHANGE FELLOWSHIP AWARD
10/02/1994 – 08/31/1998 FY97: $0 Total: $66,000
Prin. Invest.: C D'ANTONIO
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30259 UNIVERSITY OF CALIFORNIA – BERKELEY **2358**
GLOBAL CHANGE FELLOWSHIP AWARD
10/02/1994 – 08/31/1998 FY97: $0 Total: $66,000
Prin. Invest.: F S CHAPIN III
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30260 UNIVERSITY OF CALIFORNIA – BERKELEY **2359**
GLOBAL CHANGE FELLOWSHIP AWARD
09/21/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: P A MATSON
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30289 UNIVERSITY OF CALIFORNIA – BERKELEY **2360**
GLOBAL CHANGE FELLOWSHIP PROGRAM
10/20/1994 – 08/31/1998 FY97: $0 Total: $66,000
Prin. Invest.: J HARTE
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30318 UNIVERSITY OF CALIFORNIA – BERKELEY **2361**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/31/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: W E DIETRICH
Tech. Officer: HQ/M BALTUCK, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30327 UNIVERSITY OF CALIFORNIA – BERKELEY **2362**
GLOBAL CHANGE FELLOWSHIP PROGRAM
09/22/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: J KIRCHNER
Tech. Officer: HQ/M BALTUCK, HQ/G ASRAR
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 51030 UNIVERSITY OF CALIFORNIA – BERKELEY **2363**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/22/1993 – 03/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: M HOLT
Tech. Officer: HQ/P HUNTER
CASE Category: 46 – MECHANICAL ENGR

NGT 51062 UNIVERSITY OF CALIFORNIA – BERKELEY **2364**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/27/1993 – 06/30/1996 FY97: –$2,521 Total: $63,479
Prin. Invest.: O H SIEGMUND
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51076 UNIVERSITY OF CALIFORNIA – BERKELEY **2365**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/01/1993 – 06/30/1996 FY97: $0 Total: $66,000
Prin. Invest.: A E LANGE
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51082 UNIVERSITY OF CALIFORNIA – BERKELEY **2366**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/01/1993 – 12/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: J R GRAHAM
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51191 UNIVERSITY OF CALIFORNIA – BERKELEY **2367**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/29/1993 – 03/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: F H SHU
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51222 UNIVERSITY OF CALIFORNIA – BERKELEY **2368**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/26/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: M K FIRESTONE
Tech. Officer: HQ/A NOVOTNY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 51268 UNIVERSITY OF CALIFORNIA – BERKELEY **2369**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/17/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: A C FERNANDEZ–PELLO
Tech. Officer: HQ/G LESANE
CASE Category: 46 – MECHANICAL ENGR

NGT 51269 UNIVERSITY OF CALIFORNIA – BERKELEY **2370**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/17/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: R PACKARD
Tech. Officer: HQ/G LESANE
CASE Category: 13 – PHYSICS

NGT 51280 UNIVERSITY OF CALIFORNIA – BERKELEY **2371**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/17/1994 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: L FELDMAN
Tech. Officer: HQ/G LESANE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 51287 UNIVERSITY OF CALIFORNIA – BERKELEY **2372**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/28/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: R P LIN
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51302 UNIVERSITY OF CALIFORNIA – BERKELEY **2373**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/14/1994 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: F S MOZER
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51303 UNIVERSITY OF CALIFORNIA – BERKELEY **2374**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/19/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: E HALLER
Tech. Officer: HQ/D HOLLAND
CASE Category: 45 – ELECTRICAL ENGR

NGT 51375 UNIVERSITY OF CALIFORNIA – BERKELEY **2375**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/05/1995 – 06/30/1998 FY97: $0 Total: $22,000
Prin. Invest.: F S MOZER
Tech. Officer: HQ/D HOLAND
CASE Category: 13 – PHYSICS

NGT 51377 UNIVERSITY OF CALIFORNIA – BERKELEY **2376**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/02/1995 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: G H FISHER
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51378 UNIVERSITY OF CALIFORNIA – BERKELEY **2377**
GSRP
06/08/1995 – 09/30/1997 FY97: $22,000 Total: $44,000
Prin. Invest.: R J SAYKALLY
Tech. Officer: HQ/D HOLLAND
CASE Category: 12 – CHEMISTRY

NGT 51416 UNIVERSITY OF CALIFORNIA – BERKELEY **2378**
GSRP
08/29/1995 – 07/31/1998 FY97: $0 Total: $44,000
Prin. Invest.: R KRAM
Tech. Officer: HQ/G LESANE
CASE Category: 46 – MECHANICAL ENGR

NGT 51643 UNIVERSITY OF CALIFORNIA – BERKELEY **2379**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/08/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: D BACKER
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51662 UNIVERSITY OF CALIFORNIA – BERKELEY **2380**
GRAD STUDENT RESEARCH PROGRAM
08/15/1996 – 08/31/1997 FY97: $0 Total: $22,000
Prin. Invest.: L BILDSTEIN
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51691 UNIVERSITY OF CALIFORNIA – BERKELEY **2381**
GRSP
07/12/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: D MURTHY
Tech. Officer: HQ/G LESANE
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NGT 70309 UNIVERSITY OF CALIFORNIA – BERKELEY **2382**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
06/22/1993 – 05/31/1996 FY97: –$3,051 Total: $60,709
Prin. Invest.: M HOLT
Tech. Officer: HQ/D K RUSSELL
CASE Category: 46 – MECHANICAL ENGR

NGT 90039 UNIVERSITY OF CALIFORNIA – BERKELEY **2383**
NGT–90039/UNIV CA @ BERKELEY/MESA COMMUNITY COLLEGE PROGRAM
08/17/1992 – 06/30/1997 FY97: $0 Total: $337,379
Prin. Invest.: D GALLIGANI
Tech. Officer: HQ/M MATEU
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 2 52233 UNIVERSITY OF CALIFORNIA – BERKELEY **2384**
CHARACTERICATION OF MICROBIAL DIVERISTY IN YELLOWS TONE FUMAROLES: THE SEARCH FOR PRIMITIVE LIFE IN.
08/26/1997 – 07/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: N R PACE
Tech. Officer: ARC/D J DES MARAIS
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NGT 5 30005 UNIVERSITY OF CALIFORNIA – BERKELEY **2385**
THE DEVELOPMENT OF POTASSIUM TANTALATE NIOBATE THI BASED PRYOELECTRIC DETECTORS
10/11/1996 – 08/31/1997 FY97: $22,000 Total: $22,000
Prin. Invest.: E HALLER
Tech. Officer: GSFC/G ASRAR
CASE Category: 49 – ENGINEERING, OTHER

NGT 5 30006 UNIVERSITY OF CALIFORNIA – BERKELEY **2386**
HYDROLOGIC CONTROLS ON NUTRIENT CYCLING AND TROPHI CALIFORNIA RIVER ECOSYSTEMS
10/11/1996 – 08/31/1997 FY97: $44,000 Total: $44,000
Prin. Invest.: M POWER
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30010 UNIVERSITY OF CALIFORNIA – BERKELEY **2387**
EFFECTS OF NITROGEN ADDITIONS ON GASEOUS NITROGEN DYNAMICS ACROSS A GRADIENT OF NUTRIENT LIMITATION
10/23/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: P A MATSON
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30044 UNIVERSITY OF CALIFORNIA – BERKELEY **2388**
THE RELATIONSHIP BETWEEN SOIL AGE, LAND USE AND C VALLEY OF CALIFORNIA
12/12/1996 – 08/31/1997 FY97: $44,000 Total: $44,000
Prin. Invest.: D G AMUNDSON
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30071 UNIVERSITY OF CALIFORNIA – BERKELEY **2389**
PREDICTING WHEN VEGETATION CHANGE MATTERS TO ECOSY ONING
09/09/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: S CHAPIN
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30075 UNIVERSITY OF CALIFORNIA – BERKELEY **2390**
THE EFFECT OF WATER ON CARBON CYCLING AND SOIL CAR ECIPITATION ECOSYSTEMS
09/09/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D MATSON
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30089 UNIVERSITY OF CALIFORNIA – BERKELEY **2391**
SOIL DEPTH, TOPOGRAPHY, BIOTA AND CLIMATE CHANGE/E FELLOWSHIP PROGRAM/HEIMSATH
09/10/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: W DIETRICH
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30097 UNIVERSITY OF CALIFORNIA – BERKELEY **2392**
INFLUENCE OF VEGETATION OF FLUVIAL EROSION RATES/N SCIENCE_FELLOWSHIP PROGRAM/MICHELI
09/10/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J KIRCHNER
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50012 UNIVERSITY OF CALIFORNIA – BERKELEY **2393**
RAVITROPIC SWITCHING IN PLANTS
12/19/1996 – 08/31/1997 FY97: $22,000 Total: $22,000
Prin. Invest.: L F FELDMAN
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 5 50035 UNIVERSITY OF CALIFORNIA – BERKELEY **2394**
THE DYNAMICS OF TWISTED ACTIVE REGION FLUX TUBES
08/04/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: G FISHER/LINTON
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50048 UNIVERSITY OF CALIFORNIA – BERKELEY **2395**
CONTINUOUS WAVE OPERATION OF FAR–INFRARED GERMANIU S
07/17/1997 – 07/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: E HALLER
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50052 UNIVERSITY OF CALIFORNIA – BERKELEY **2396**
NUCLEAR BURNING ON RAPIDLY ACCRETING X–RAY PULSARS
07/17/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: L BILDSTEN
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50061 UNIVERSITY OF CALIFORNIA – BERKELEY **2397**
ION OUTFLOW FROM THE AURORAL IONOSPHERE
08/04/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: CHARLES
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 50066 UNIVERSITY OF CALIFORNIA – BERKELEY **2398**
DEVELOPMENT OF A SUPERFLUID HELIUM–4 GYROSCOPE
09/05/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D PACKARD
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 50072 UNIVERSITY OF CALIFORNIA – BERKELEY **2399**
MUSCLE OXYGENATION AS AN OBJECTIVE METHOD TO EVALU PACE STATION GLOVEBOX DESIGN
09/02/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: S HAMMOND
Tech. Officer: GSFC/L CHAMBERS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50079 UNIVERSITY OF CALIFORNIA – BERKELEY **2400**
GRAVITATIONAL LENSING BY LARGE SCALE STRUCTURE
09/11/1997 – 08/14/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J SILK
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 50100 UNIVERSITY OF CALIFORNIA – BERKELEY **2401**
THE BIOMECHANICS OF REDUCED GRAVITY LOCOMOTION
09/06/1997 – 07/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: FARLEY
Tech. Officer: GSFC/L CHAMBERS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50126 UNIVERSITY OF CALIFORNIA – BERKELEY **2402**
ELUCIDATING THE ROLE OF CARBON AND SILICON–CARBON AR DUST FORMATION_____STUDEN
09/09/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: R J SAYKALLY
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTIINTERDISCPL, OTHER

NGT 5 50133 UNIVERSITY OF CALIFORNIA – BERKELEY **2403**
ASTROPHYSICS OF JETS AND MAGNETIC FIELDS OF SPIRAL
09/10/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D C BACKER
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50157 UNIVERSITY OF CALIFORNIA – BERKELEY **2404**
THE COMPOSITION OF THE ACTINIDES IN GALACTIC COSMI
09/11/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: P PRICE
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 1 1572 UNIVERSITY OF CALIFORNIA – DAVIS **2405**
STUDY OF THE MUTUAL INTERACTION BETWEEN A WING WAKE AND AN ENCOUNTERING AIRPLANE
01/27/1994 – 10/25/1995 FY97: –$117 Total: $44,015
Prin. Invest.: C VANDAM
Tech. Officer: LARC/J M BRANDON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1744 UNIVERSITY OF CALIFORNIA – DAVIS **2406**
NEW NASA RESEARCH GRANT ACTUATOR SATURATION AND ADVERSE PILOT–VEHICLE COUP
07/31/1995 – 07/31/1997 FY97: $0 Total: $45,821
Prin. Invest.: R A HESS, S A SNELL
Tech. Officer: LARC/B J BACON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 788 UNIVERSITY OF CALIFORNIA – DAVIS **2407**
GRAVITATIONAL FIELDS & NEURAL SIGNALING IN THE HIP POCAMPUS
05/29/1992 – 04/30/1997 FY97: $0 Total: $145,500
Prin. Invest.: J M HOROWITZ
Tech. Officer: ARC/C E WADE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 795 UNIVERSITY OF CALIFORNIA – DAVIS **2408**
EFFECTS OF CENTRIFUGE DIAMETER & OPERATION ON RODE NT ADAPTION TO CHRONIC CENTRIFUGATION
08/28/1992 – 06/30/1996 FY97: $0 Total: $551,926
Prin. Invest.: C A FULLER
Tech. Officer: ARC/S M HING, ARC/B J CORBIN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 2 840 UNIVERSITY OF CALIFORNIA – DAVIS **2409**
HOMEOSTATIC & CIRCADIAN RESPONSES OF RHESUS MONKEY S DURING SPACEFLIGHT
06/11/1993 – 03/31/1998 FY97: $126,000 Total: $715,902
Prin. Invest.: J VERNIKOS
Tech. Officer: ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 944 UNIVERSITY OF CALIFORNIA – DAVIS **2410**
CNS CONTROL OF RHYTHMS & HOMEOSTASIS DURING SPACE FLIGHT
12/21/1994 – 11/30/1997 FY97: $93,490 Total: $191,726
Prin. Invest.: C A FULLER
Tech. Officer: ARC/W E HINDS, ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 983 UNIVERSITY OF CALIFORNIA – DAVIS **2411**
EFFECTS OF GRAVITY ON INSECT CIRCADIAN RHYTHMICITY
05/25/1995 – 11/30/1997 FY97: $100,000 Total: $444,164
Prin. Invest.: T M HOBAN–HIGGINS, C A FULLER, G X WASSMER
Tech. Officer: ARC/C M WINGET, ARC/G C JAHNS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 1014 UNIVERSITY OF CALIFORNIA – DAVIS **2412**
15TH INTERNATIONAL CONFERENCE ON NUMERICAL METHODS IN FLUID DYNAMICS
09/22/1995 – 04/30/1998 FY97: $13,500 Total: $58,500
Prin. Invest.: J J CHATTOT
Tech. Officer: ARC/C A SMITH, ARC/J FLORES
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 1019 UNIVERSITY OF CALIFORNIA – DAVIS **2413**
MICROGRAVITY EFFECTS ON DEVELOPING VESTIBULAR AFFE RENTS (NEUROLAB)
01/22/1996 – 11/30/1997 FY97: $84,787 Total: $303,220
Prin. Invest.: B CHAPMAN
Tech. Officer: ARC/W E HINDS, ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 4003 UNIVERSITY OF CALIFORNIA – DAVIS **2414**
DYNAMICS OF VARIABLE MASS SYSTEMS
12/01/1993 – 03/15/1998 FY97: $0 Total: $230,374
Prin. Invest.: F O EKE
Tech. Officer: ARC/K GUPTA
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1558 UNIVERSITY OF CALIFORNIA – DAVIS **2415**
NOVEL FLOW CONFIGURATION FOR THE STUDY OF TURBULEN T FLAME PROPAGATION
02/08/1994 – 09/30/1997 FY97: $0 Total: $224,817
Prin. Invest.: R C ALDREDGE
Tech. Officer: LERC/K J WEILAND
CASE Category: 46 – MECHANICAL ENGR

NAG 3 2032 UNIVERSITY OF CALIFORNIA – DAVIS **2416**
STEADY TRANSONIC FLOW SOLUTIONS OF TURBOMACHINE BL ADE ROWS USING THE FULL POTENTIAL FLOW SOLVER SFL
04/08/1997 – 10/31/1997 FY97: $37,582 Total: $37,582
Prin. Invest.: V R CAPECE, M H HAFEZ
Tech. Officer: LERC/O MEHMED
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 3001 UNIVERSITY OF CALIFORNIA – DAVIS **2417**
AIRBORNE LASER ALTIMETRIC MONITORING OF THE RAPID EVOLUTION OF TOPOGRAPHY IN LONGVALLEY, CALIF....
07/14/1995 – 07/31/1997 FY97: $0 Total: $130,000
Prin. Invest.: J MINSTER
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3959 UNIVERSITY OF CALIFORNIA – DAVIS **2418**
FATNESS, FOOD INTAKE AND HYPERGRAVITY: RESPONSES O
03/17/1997 – 02/28/1998 FY97: $239,000 Total: $239,000
Prin. Invest.: B HORWITZ
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 4320 UNIVERSITY OF CALIFORNIA – DAVIS **2419**
CIRCADIAN RHYTHMS IN RHESUS, GRAVITYL IGHT AND GE
04/04/1997 – 07/31/1998 FY97: $181,876 Total: $181,876
Prin. Invest.: C A FULLER
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 4711 UNIVERSITY OF CALIFORNIA – DAVIS **2420**
MEASURING PHOTOCHEMICAL BRANCHING RATIOS FOR COMET USING THE ADVANCED LIGHT SOURCE AT THE CHEMICAL D
06/11/1997 – 04/30/1998 FY97: $85,000 Total: $85,000
Prin. Invest.: D M JACKSON
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 6246 UNIVERSITY OF CALIFORNIA – DAVIS **2421**
MARS BOUNDARY LAYER STABILITY EXPERIMENTS OF DUST
08/19/1997 – 07/14/1998 FY97: $47,300 Total: $47,300
Prin. Invest.: D WHITE
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 1143 UNIVERSITY OF CALIFORNIA – DAVIS **2422**
THE GLOBAL ATMOSPHIERIC RESPONSE TO LOCALIZED LOW FREQUENCY FORCING
05/24/1995 – 08/31/1998 FY97: $82,000 Total: $120,000
Prin. Invest.: T R NATHAN
Tech. Officer: MSFC/T L MILLER, MSFC/S H CHOW
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 9 825 UNIVERSITY OF CALIFORNIA – DAVIS **2423**
MICROGRAVITY THRESHOLDS FOR ANTI CANCER DRUG PROD.
08/09/1995 – 02/28/1998 FY97: $0 Total: $239,978
Prin. Invest.: D J DURZAN
Tech. Officer: JSC/N PELLIS
CASE Category: 56 – MEDICL

NAGW 903 UNIVERSITY OF CALIFORNIA – DAVIS **2424**
LASER STUDIES OF PHOTODISSOCIATION DYNAMICS
06/01/1986 – 11/30/1995 FY97: –$1,689 Total: $577,310
Prin. Invest.: W M JACKSON
Tech. Officer: HQ/J T BERGSTRALH, HQ/W L QUAIDE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4016 UNIVERSITY OF CALIFORNIA – DAVIS **2425**
TIME-RESOLVED FTIR EMISSION STUDIES OF RADICAL CHEMISTRY RELEVANT TO THE JOVIAN ATMOSPHERE
05/25/1994 – 02/28/1997 FY97: $0 Total: $118,400
Prin. Invest.: W JACKSON
Tech. Officer: HQ/J H RAHE
CASE Category: 12 – CHEMISTRY

NAGW 4390 UNIVERSITY OF CALIFORNIA – DAVIS **2426**
CIRCADIAN RHYTHMS IN RHESUS
04/03/1995 – 02/28/1997 FY97: $0 Total: $395,370
Prin. Invest.: C A FULLER
Tech. Officer: HQ/F SULZMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4552 UNIVERSITY OF CALIFORNIA – DAVIS **2427**
EFFECT OF GRAVITY ON THE REGULATION OF CIRCADIAN R HYTHMS
06/28/1995 – 03/31/1998 FY97: $0 Total: $245,530
Prin. Invest.: D M MURAKAMI
Tech. Officer: HQ/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4626 UNIVERSITY OF CALIFORNIA – DAVIS **2428**
PREDICTING VEGETATION TYPE AND BIOMASS IN THE SANT A MONICA MOUNTAINS
07/18/1995 – 03/31/1997 FY97: $0 Total: $161,181
Prin. Invest.: S L USTIN, F FONDA-BONARDI, S G CONARD
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 5080 UNIVERSITY OF CALIFORNIA – DAVIS **2429**
REMOTE SENSING SCIENCE FOR AGRICULTURE IN THE 21ST CENTURY
05/23/1996 – 07/31/1996 FY97: $0 Total: $46,641
Prin. Invest.: P J COLEMAN, JR.
Tech. Officer: HQ/R C HARRISS, HQ/J GASCH
CASE Category: 55 – AGRICULTURE

NAGW 5083 UNIVERSITY OF CALIFORNIA – DAVIS **2430**
MEASURING PHOTOSHEMICAL BRANCHING RATIOS
05/24/1996 – 04/30/1997 FY97: $0 Total: $85,000
Prin. Invest.: W M JACKSON
Tech. Officer: HQ/J BERGSTRALH, HQ/J RAHE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5199 UNIVERSITY OF CALIFORNIA – DAVIS **2431**
DARK MATTER MISSION
10/03/1996 – 09/30/1997 FY97: $50,000 Total: $50,000
Prin. Invest.: R H BECKER
Tech. Officer: HQ/M S KAPLAN
CASE Category: 11 – ASTRONOMY

NAS 5 31359 UNIVERSITY OF CALIFORNIA – DAVIS **2432**
EOS-BIOSPHERE-ATMOSPHERE INTERACTIONS STUDY
11/05/1991 – 12/31/1999 FY97: $65,000 Total: $403,400
Prin. Invest.: S USTIN
Tech. Officer: GSFC/P SELLERS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 32959 UNIVERSITY OF CALIFORNIA – DAVIS **2433**
CYCLOTRON BEAM TIME
09/18/1995 – 12/31/1997 FY97: $33,000 Total: $50,500
Prin. Invest.: D CASTANEDA
Tech. Officer: GSFC/K A LABEL
CASE Category: 42 – ASTRONAUTICAL ENGR

NCC 1 207 UNIVERSITY OF CALIFORNIA – DAVIS **2434**
ANALYSIS AND PREDICTION OF VISCOUS FLOWS ABOUT MUL TI-ELEMENT HIGH-LIFT SYSTEMS ON SUBSONIC AIRCRAFT
01/06/1995 – 12/31/1996 FY97: $0 Total: $59,551
Prin. Invest.: C P VAN DAM
Tech. Officer: LARC/J H WHITEHEAD, LARC/L P YIP
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 860 UNIVERSITY OF CALIFORNIA – DAVIS **2435**
USE OF REMOTE SENSING SURVEILLANCE TO MONITOR ENVIRONMENTAL PARAMETERS ASSOCIATEDWITH MOSQUITO
06/16/1994 – 03/31/1996 FY97: -$93 Total: $107,669
Prin. Invest.: R K WASHINO
Tech. Officer: ARC/D L PETERSON
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NCC 2 873 UNIVERSITY OF CALIFORNIA – DAVIS **2436**
NUMERICAL STUDY OF TIP VORTEX FLOWS
08/29/1994 – 11/30/1997 FY97: $30,000 Total: $275,478
Prin. Invest.: M HAFEZ
Tech. Officer: ARC/D KWAK
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 880 UNIVERSITY OF CALIFORNIA – DAVIS **2437**
DESIGN OF ADVANCED SUBSONIC TGRANSPORTS USING NUME RICAL SOLUTION OF THE FULL POTENTIAL EQUATION
12/19/1994 – 09/30/1998 FY97: $89,901 Total: $260,053
Prin. Invest.: M M HAFEZ, D J KINNEY
Tech. Officer: ARC/P A GELHAUSEN, ARC/K B CARBAJAL
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 886 UNIVERSITY OF CALIFORNIA – DAVIS **2438**
EFFECT OF SPACEFLIGHT ON THE DEVELOPMENT OF THE CI RCADIAN TIMING SYSTEM
02/06/1995 – 09/30/1997 FY97: $0 Total: $537,551
Prin. Invest.: C A FULLER
Tech. Officer: ARC/D A REISS-BUBENHEIM, ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 2 905 UNIVERSITY OF CALIFORNIA – DAVIS **2439**
PERCEPTUAL AND MOTOR RESPONSES TO VISUAL DISPLAYS
06/21/1995 – 11/30/1997 FY97: $10,000 Total: $50,000
Prin. Invest.: R B POST
Tech. Officer: ARC/R B WELCH
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 2 970 UNIVERSITY OF CALIFORNIA – DAVIS **2440**
THE EFFECTS OF CENTRIFUGATION ON RODENT WATER BALA NCE
09/24/1996 – 09/30/1998 FY97: $0 Total: $66,686
Prin. Invest.: C A FULLER, PH.D.
Tech. Officer: ARC/S M HING, ARC/C C JOHNSON
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 2 5004 UNIVERSITY OF CALIFORNIA – DAVIS **2441**
PRISMATIC GRID GENERATION AND VALIDATION
10/07/1993 – 03/31/1996 FY97: –$282 Total: $39,718
Prin. Invest.: J CHATTOT, M HAFEZ
Tech. Officer: ARC/Y LIU
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5042 UNIVERSITY OF CALIFORNIA – DAVIS **2442**
DESIGN METHODOLOGY FOR MULTI–ELEMENT HIGH–LIFT SYS TEMS ON SUBSONIC CIVIL TRANSPORT AIRCRAFT
03/18/1994 – 09/30/1996 FY97: –$2 Total: $79,998
Prin. Invest.: C P VAN DAM
Tech. Officer: ARC/P A GELHAUSEN
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5049 UNIVERSITY OF CALIFORNIA – DAVIS **2443**
PARALLEL COMPUTATIONS OF WING CONFIGURATIONS
05/06/1994 – 04/30/1996 FY97: –$7 Total: $39,993
Prin. Invest.: M M HAFEZ
Tech. Officer: ARC/E TU
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5050 UNIVERSITY OF CALIFORNIA – DAVIS **2444**
ACCURATE AND EFFICIENT CALCULATIONS OF SONIC BOOM SIGNATURE
05/06/1994 – 08/31/1996 FY97: –$1,085 Total: $49,500
Prin. Invest.: M M HAFEZ
Tech. Officer: ARC/E TU
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5085 UNIVERSITY OF CALIFORNIA – DAVIS **2445**
GRID ADAPTATION TECHNIQUES FOR PRACTICAL FLOW SIMU LATIONS
07/28/1994 – 07/31/1996 FY97: $0 Total: $40,000
Prin. Invest.: M HAFEZ
Tech. Officer: ARC/P BUNING
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5134 UNIVERSITY OF CALIFORNIA – DAVIS **2446**
MAPPING NORTHERN EXPOSURE WITH POLDER: APPLICATION FOR CIRCUMPOLAR
06/02/1995 – 05/31/1997 FY97: $0 Total: $60,131
Prin. Invest.: S USTIN
Tech. Officer: ARC/V C VANDERBILT
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NCC 2 5154 UNIVERSITY OF CALIFORNIA – DAVIS **2447**
COMPUTATIONAL MODELING OF ULTRAFAST OPTICLA PULSE PROPAGATION IN SEMICONDUCTORS
08/21/1995 – 08/31/1997 FY97: $0 Total: $0
Prin. Invest.: A KNOESEN
Tech. Officer: ARC/P GOORJIAN
CASE Category: 45 – ELECTRICAL ENGR

NCC 2 5188 UNIVERSITY OF CALIFORNIA – DAVIS **2448**
HIGH LIFT DESIGN METHOD FOR SUBSONIC CIVIL TRNASPORT
08/16/1996 – 12/31/1997 FY97: $0 Total: $40,000
Prin. Invest.: C P VAN DAM
Tech. Officer: ARC/D KINNEY
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5201 UNIVERSITY OF CALIFORNIA – DAVIS **2449**
AN ANJOINT BASED DESIGN METHOD FOR THE COUPLED EUL ER/INTEGRAL BOUNDRY LAYER EQUATION
12/23/1996 – 10/31/1997 FY97: $38,565 Total: $38,565
Prin. Invest.: J CHATTOT
Tech. Officer: ARC/S C SMITH
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5214 UNIVERSITY OF CALIFORNIA – DAVIS **2450**
MATERIAL CHARACTERIZATION FOR DUCTILE FRACTURE PREDICTION
05/13/1997 – 12/31/1997 FY97: $32,651 Total: $32,651
Prin. Invest.: M R HILL
Tech. Officer: ARC/T L PANONTIN
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 2 5223 UNIVERSITY OF CALIFORNIA – DAVIS **2451**
MULTI–VIEW ANGLE SPECTRAL UNMIXING POLDER IMAGE DATA
06/24/1997 – 05/31/1998 FY97: $30,000 Total: $30,000
Prin. Invest.: S USTIN
Tech. Officer: ARC/V C VANDERBILT
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 2 5229 UNIVERSITY OF CALIFORNIA – DAVIS **2452**
CONVERGENCE ACCELERATION OF HIGH SPEED FLOW SIMULATIONS
07/17/1997 – 01/31/1998 FY97: $25,000 Total: $25,000
Prin. Invest.: M HAFEZ
Tech. Officer: ARC/D KWAK
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5233 UNIVERSITY OF CALIFORNIA – DAVIS **2453**
NUMERICAL SIMULATION OF TIME–DEPENDENT VISCOUS FLO WS ABOUT WIND TURBINES
08/01/1997 – 03/31/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: C P VAN DAM
Tech. Officer: ARC/E DUQUE
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5238 UNIVERSITY OF CALIFORNIA – DAVIS **2454**
DEVELOPING A METHODOLOGY TO INCLUDE PILOT BEHAVIOR AND PERCEPTUAL CHARACTERISTICS FOR GROUND–BASED.
08/26/1997 – 11/30/1997 FY97: $10,000 Total: $10,000
Prin. Invest.: R HESS
Tech. Officer: ARC/W W CHUNG
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5240 UNIVERSITY OF CALIFORNIA – DAVIS **2455**
APPROXIMATE METHODS FOR CORRECTING POTENTIAL FLOW SOLUTIONS
09/22/1997 – 06/30/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: M HAFEZ
Tech. Officer: ARC/D KINNEY
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 3 353 UNIVERSITY OF CALIFORNIA – DAVIS **2456**
ELECTROHYDRODYNAMIC POOLING IN REDUCED GRAVITY
06/29/1994 – 12/31/1996 FY97: $0 Total: $100,000
Prin. Invest.: B D SHAW
Tech. Officer: LERC/F P CHIARAMONTE
CASE Category: 46 – MECHANICAL ENGR

NCC 3 477 UNIVERSITY OF CALIFORNIA – DAVIS **2457**
COMBUSTION EXPERIMENTS IN REDUCED GRAVITY WITH TWO –COMPONENT MISCIBLE DROPLETS
05/21/1996 – 05/20/2000 FY97: $58,235 Total: $170,044
Prin. Invest.: B SHAW
Tech. Officer: LERC/D DIETRICH
CASE Category: 13 – PHYSICS

NCC 4 108 UNIVERSITY OF CALIFORNIA – DAVIS **2458**
IN–FLIGHT FLOW VISUALIZATION USING INFRARED THERMOGRAPHY
01/23/1997 – 10/31/1997 FY97: $33,552 Total: $33,552
Prin. Invest.: C P VAN DAM
Tech. Officer: DFRC/D BANKS
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 30153 UNIVERSITY OF CALIFORNIA – DAVIS **2459**
NGT–30153/UNIV CA @ DAVIS/GLOBAL CHANGE FELLOWSHIP PROGRAM
11/02/1992 – 12/31/1995 FY97: –$2 Total: $65,998
Prin. Invest.: E C CORDERO
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 30200 UNIVERSITY OF CALIFORNIA – DAVIS **2460**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/26/1993 – 02/28/1998 FY97: $0 Total: $66,000
Prin. Invest.: B C WEARE
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 30300 UNIVERSITY OF CALIFORNIA – DAVIS **2461**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/11/1995 – 08/31/1998 FY97: $0 Total: $22,000
Prin. Invest.: M B PARLANGE
Tech. Officer: HQ/M Y WEI, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30341 UNIVERSITY OF CALIFORNIA – DAVIS **2462**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/04/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: S L USTIN
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30052 UNIVERSITY OF CALIFORNIA – DAVIS **2463**
LANDSCAPE STRUCTURE IS AN INT EARTH SYSTEM RESPONSE TO CLIMATE CHANGE
09/06/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: S L USTIN
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30073 UNIVERSITY OF CALIFORNIA – DAVIS **2464**
CLIMATE CONTROL OF VEGETATION AND GROWTH FORM DIST WATER AND ENERGY BALANCE AT LANDSCAPE SCALES____
09/09/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J GIBELING
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50068 UNIVERSITY OF CALIFORNIA – DAVIS **2465**
GENDER DIFFERENCES IN THE RESPONSES OF RHESUS MONK ENVIRONMENT
09/02/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: C FULLER
Tech. Officer: GSFC/L CHAMBERS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90024 UNIVERSITY OF CALIFORNIA – DAVIS **2466**
UNDERGRADUATE STUDENT AWARDS FOR RESEACH (USAR)
01/06/1997 – 08/14/1998 FY97: $12,000 Total: $12,000
Prin. Invest.: R CRIDDLE
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 1 1515 UNIVERSITY OF CALIFORNIA – IRVINE **2467**
THEORETICAL STUDIES OF THE CURRENT AIRCRAFT FLEET' EXHAUST IN A 3–D TRACER MODELAND SCATTERED RAD.
06/04/1993 – 06/03/1997 FY97: $0 Total: $210,999
Prin. Invest.: M J PRATHER
Tech. Officer: LARC/W L GROSE, LARC/E E REMSBERG
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1619 UNIVERSITY OF CALIFORNIA – IRVINE **2468**
SPRAY ATOMIZATION AND DEPOSITION PROCESSING OF AL–LI AND AL–MG STRUCTURAL MATERIALS
05/24/1994 – 05/23/1997 FY97: $1 Total: $159,072
Prin. Invest.: E J LAVERNIA
Tech. Officer: LARC/W D BREWER, LARC/D M ROYSTER
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 1644 UNIVERSITY OF CALIFORNIA – IRVINE **2469**
PEM–EAST AND PEM–CENTRAL 1996 CANISTER FABRICATION
09/30/1994 – 08/31/1996 FY97: $0 Total: $250,000
Prin. Invest.: F S ROWLAND, D R BLAKE
Tech. Officer: LARC/J W DREWRY, LARC/J M HOELL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1729 UNIVERSITY OF CALIFORNIA – IRVINE **2470**
EXPERIMENTAL INVESTIGATION OF VARIABLE–DENSITY, VA RIABLE–MACH NUMBER COFLOWING JETS
05/24/1995 – 05/23/1997 FY97: $1 Total: $27,001
Prin. Invest.: D PAPAMOSCHOV
Tech. Officer: LARC/J M SEINER, LARC/M K PONON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1777 UNIVERSITY OF CALIFORNIA – IRVINE **2471**
NEW NASA RESEARCH GRANT
10/30/1995 – 05/31/1998 FY97: $30,000 Total: $887,500
Prin. Invest.: D R BLAKE, D S ROWLAND
Tech. Officer: LARC/J M HOELL, JR., LARC/R J BENDURA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1906 UNIVERSITY OF CALIFORNIA – IRVINE **2472**
COUPLING ATMOSPHERIC CIRCULATION AND CHEMISTRY: DEVELOPING CTMS FOR CLIMATE SIMULATIONS
02/28/1997 – 02/28/1998 FY97: $90,000 Total: $90,000
Prin. Invest.: M J PRANTHER
Tech. Officer: LARC/G L MADREA, LARC/L R POOLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 942 UNIVERSITY OF CALIFORNIA – IRVINE **2473**
NEURAL–THYROID INTERACTION ON SKELETAL ISOMYOSIA E XPRESSION IN OG (ZERO GRAVITY)
12/22/1994 – 11/30/1997 FY97: $63,255 Total: $216,406
Prin. Invest.: K M BALDWIN
Tech. Officer: ARC/W E HINDS, ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 970 UNIVERSITY OF CALIFORNIA – IRVINE **2474**
PARTICIPATION IN THE NASA STRAT MISSION
03/16/1995 – 12/31/1995 FY97: $0 Total: $93,470
Prin. Invest.: D W TOOHEY
Tech. Officer: ARC/E P CONDON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 1058 UNIVERSITY OF CALIFORNIA – IRVINE **2475**
MIR2CAM: A TWO CHANNELMID–INFRARED CAMERA FOR BR OAD–BAND IMAGING
07/01/1996 – 12/31/1997 FY97: $0 Total: $54,045
Prin. Invest.: R GARDEN
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 1102 UNIVERSITY OF CALIFORNIA – IRVINE **2476**
WHOLE AIR SAMPLING FROM THE DC–8 AIRCRAFT DURING S ONEX
01/13/1997 – 02/28/1998 FY97: $295,912 Total: $295,912
Prin. Invest.: D BLAKE
Tech. Officer: ARC/E P CONDON, ARC/S S WEGENER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 3 627 UNIVERSITY OF CALIFORNIA – IRVINE **2477**
IGNITION AND FLAME SPREAD OF LIQUID FUEL POOLS IN REDUCED GRAVITY
03/04/1985 – 02/27/1998 FY97: $0 Total: $956,883
Prin. Invest.: W A SIRIGNANO
Tech. Officer: LERC/H D ROSS, LERC/R SACKSTEDGR
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1605 UNIVERSITY OF CALIFORNIA – IRVINE **2478**
EFFECTS OF GRAVITY ON SHEARED AND NON SHEARED TURB ULENT NONPREMIXED FLAMES
05/23/1994 – 05/22/1998 FY97: $110,209 Total: $443,000
Prin. Invest.: S E ELGHOBASHI, K K NOMURA
Tech. Officer: LERC/H D ROSS
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1831 UNIVERSITY OF CALIFORNIA – IRVINE **2479**
EFFECTS OF GRAVITY ON SHEARED TURBULENCE LADEN WIT H BUBBLES OR DROPLETS
05/02/1996 – 05/01/2000 FY97: $66,667 Total: $166,667
Prin. Invest.: S ELGHOBASHI, J LA SHERAS
Tech. Officer: LERC/S LA SHERAS
CASE Category: 13 – PHYSICS

NAG 3 1981 UNIVERSITY OF CALIFORNIA – IRVINE **2480**
MACH WAVE ELIMINATION IN SUPERSONIC JETS
10/28/1996 – 10/31/1998 FY97: $82,128 Total: $82,128
Prin. Invest.: D PAPAMDSCHOU
Tech. Officer: LERC/M D DAHL
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 2024 UNIVERSITY OF CALIFORNIA – IRVINE **2481**
IGNITION AND FLAME SPREAD ABOVE LIQUID FUEL POOLS: GRAVITY EFFECTS
03/01/1997 – 02/28/1999 FY97: $95,000 Total: $95,000
Prin. Invest.: W A SIRIGNANO
Tech. Officer: LERC/H D ROSS
CASE Category: 46 – MECHANICAL ENGR

NAG 5 2257 UNIVERSITY OF CALIFORNIA – IRVINE **2482**
STRUCTURE AND DYNAMICS OF THE CORONAL MAGNETIC FIE LD
04/27/1993 – 07/31/1996 FY97: $0 Total: $657,014
Prin. Invest.: G V HOVEN
Tech. Officer: GSFC/T J BIRMINGHAM, GSFC/J D BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 2306 UNIVERSITY OF CALIFORNIA – IRVINE **2483**
INPUT, ACCUMULATION AND TURNOVER OF CARBON IN BORE AL FOREST SOILS
07/01/1993 – 07/14/1997 FY97: $50,000 Total: $616,048
Prin. Invest.: S TRUMBORE
Tech. Officer: GSFC/F G HALL, GSFC/P SELLERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2724 UNIVERSITY OF CALIFORNIA – IRVINE **2484**
TROPOPAUSE MIXING AND CHEMISTRY: THE IMPACT OF NOX INJECTIONS
09/21/1994 – 09/30/1997 FY97: $42,000 Total: $140,793
Prin. Invest.: M J PRATHER
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2780 UNIVERSITY OF CALIFORNIA – IRVINE **2485**
STUDIES OF LOWER STRATOSPHERIC PHOTOCHEMISTRY AND TRANS-PORT USING COMBINED UARS AND IN SITU DATASETS
11/07/1994 – 11/14/1997 FY97: $97,562 Total: $289,537
Prin. Invest.: D W TOOHEY
Tech. Officer: GSFC/C H JACKMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2917 UNIVERSITY OF CALIFORNIA – IRVINE **2486**
CHEMICAL TRANSPORT MODELS: A GENERAL INTERFACE WITH GLOBAL CIRCULATION MODELS
03/17/1995 – 03/31/1998 FY97: $62,600 Total: $209,600
Prin. Invest.: M J PRATHER
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3467 UNIVERSITY OF CALIFORNIA – IRVINE **2487**
STABLE ISOTOPES AND RADIOCARBON IN ATMOSPHERIC MET
11/05/1996 – 10/31/1997 FY97: $224,185 Total: $224,185
Prin. Invest.: S C TYLER
Tech. Officer: GSFC/J A KAYE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3692 UNIVERSITY OF CALIFORNIA – IRVINE **2488**
A DATA–PARALLEL COMPUTING ENVIRONMENT (SHARK OS)
01/22/1997 – 01/31/1998 FY97: $93,910 Total: $93,910
Prin. Invest.: I SCHERSON
Tech. Officer: GSFC/J DORBAND
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 3741 UNIVERSITY OF CALIFORNIA – IRVINE **2489**
MECHANICAL AND MOLECULAR STIMULI FOR NORMALIZING M UNLOADING
03/11/1997 – 02/14/1998 FY97: $166,962 Total: $166,962
Prin. Invest.: G ADAMS
Tech. Officer: GSFC/F M SULZMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 3767 UNIVERSITY OF CALIFORNIA – IRVINE **2490**
LATITUDINAL TROPOSPHERIC CONCENTRATION DISTRIBUTIO N HALOCARBONS & HYDROCARBONS
03/15/1997 – 01/14/1998 FY97: $209,656 Total: $209,656
Prin. Invest.: D R BLAKE
Tech. Officer: GSFC/M J KURYLO
CASE Category: 11 – ASTRONOMY

NAG 5 4040 UNIVERSITY OF CALIFORNIA – IRVINE **2491**
MECHANISMS OF MICROGRAVITY EFFECT ON VASCULAR FUNC
04/17/1997 – 01/31/1998 FY97: $192,021 Total: $192,021
Prin. Invest.: R PURDY
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 4536 UNIVERSITY OF CALIFORNIA – IRVINE **2492**
HYDRODYNAMIC SIMULATIONS OF THE FORMATION OF GIANT
05/06/1997 – 06/30/1998 FY97: $30,000 Total: $30,000
Prin. Invest.: D P RUDEN
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 5069 UNIVERSITY OF CALIFORNIA – IRVINE **2493**
HIGH ENERGY ANTIMATTER TELESCOPE – HEAT
07/18/1996 – 12/31/1997 FY97: $50,000 Total: $100,000
Prin. Invest.: S W BARWICK
Tech. Officer: WFF/H C NEEDLEMAN, WFF/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5149 UNIVERSITY OF CALIFORNIA – IRVINE **2494**
A SYSTEM FOR ACQUISITION DISEMINATION OF EARTH SCIENCE DATA VIA THE INTERNET
07/14/1997 – 04/14/1998 FY97: $265,264 Total: $265,264
Prin. Invest.: J N YANG, Z SHEN
Tech. Officer: GSFC/S R LONG, GSFC/N E HUANG
CASE Category: 33 – OCEANOGRAPHY

NAG 8 1082 UNIVERSITY OF CALIFORNIA – IRVINE **2495**
UNDERCOOLING LIMITS IN MOLTEN SEMICONDUCTORS & METALS STRUCTURE & SUPERHEATING DEPENDENCIES
10/03/1994 – 09/30/1996 FY97: $0 Total: $54,530
Prin. Invest.: F G SHI, W K RHIM
Tech. Officer: MSFC/D WATRING
CASE Category: 45 – ELECTRICAL ENGR

NAGW 452 UNIVERSITY OF CALIFORNIA – IRVINE **2496**
LATITUDINAL GRADIENTS IN TROPOSHERIC CONCENTRATIONS OF SELECTED HOLOCARBONS & HYDROCARBONS
04/27/1983 – 01/14/1997 FY97: $0 Total: $2,415,083
Prin. Invest.: D R BLAKE
Tech. Officer: HQ/M J KURYLO
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3163 UNIVERSITY OF CALIFORNIA – IRVINE **2497**
NAGW-3163/UNIV CA @ IRVINE/3-D MODELING OF TROPOSP HERIC AND STRATOSPHERIC CHEMISTRY
08/14/1992 – 12/31/1997 FY97: $44,000 Total: $453,473
Prin. Invest.: M J PRATHER
Tech. Officer: HQ/J A KAYE, HQ/R E MURPHY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4415 UNIVERSITY OF CALIFORNIA – IRVINE **2498**
MECHANISMS OF MICROGRAVITY EFFECTON VASCULAR FUNCTION
05/01/1995 – 04/30/1997 FY97: $0 Total: $325,476
Prin. Invest.: R E PURDY
Tech. Officer: HQ/F SULZMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4471 UNIVERSITY OF CALIFORNIA – IRVINE **2499**
MECHANICAL AND MOLECULAR STIMULI FOR NORMALIZING M USCLE MASS DURING UNLOADING
05/15/1995 – 09/30/1997 FY97: $0 Total: $299,865
Prin. Invest.: G R ADAMS
Tech. Officer: HQ/T K SCOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4867 UNIVERSITY OF CALIFORNIA – IRVINE **2500**
STABLE ISOTOPES AND RADIOCARBON IN ATMOSPHERIC MET HANE AND ITS SOURCES
12/04/1995 – 06/30/1997 FY97: $0 Total: $212,283
Prin. Invest.: S C TYLER, R CICERONE
Tech. Officer: HQ/J A KAYE, HQ/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 5122 UNIVERSITY OF CALIFORNIA – IRVINE **2501**
HYDRODYNAMIC SIMULATIONS OF THE FORMATION OF GIANT PLANETS
07/12/1996 – 09/30/1997 FY97: $0 Total: $30,000
Prin. Invest.: S P RUDEN
Tech. Officer: HQ/P ROGERS, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAS 1 19155 UNIVERSITY OF CALIFORNIA – IRVINE **2502**
HALOE SCIENTIFIC INVESITGATIONS
05/01/1990 – 09/30/1997 FY97: $0 Total: $540,000
Prin. Invest.: R CICERONE
Tech. Officer: LARC/L E MAULDRIN, LARC/J M RUSSELL
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAS 3 27094 UNIVERSITY OF CALIFORNIA – IRVINE **2503**
ENVIRONMENTAL TESTING OF MATERIALS
02/22/1994 – 09/30/1997 FY97: $130,000 Total: $541,442
Prin. Invest.: G S SAMUELSON, J C EARTHMAN, E J LAVERNIAN
Tech. Officer: LERC/N S JACOBSON, LERC/J L SMIALEK
CASE Category: 49 – ENGINEERING, OTHER

NCC 3 412 UNIVERSITY OF CALIFORNIA – IRVINE **2504**
DETAILED STUDIES OF THE QUICK MIXING IN RICH BURY LOW-NOX ANULAR CONFIGURATION
04/13/1995 – 03/31/1998 FY97: $210,000 Total: $458,827
Prin. Invest.: G S SAMUELSEN
Tech. Officer: LERC/J D HOLDEMAN
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 7 3 UNIVERSITY OF CALIFORNIA – IRVINE **2505**
MICROFABRICATION TRAINING AND EDUCATION
08/15/1994 – 08/15/1997 FY97: $0 Total: $1,000,000
Prin. Invest.: R D NELSON, G P LI
Tech. Officer: JPL/R A DEMOCH
CASE Category: 49 – ENGINEERING, OTHER

NGT 30161 UNIVERSITY OF CALIFORNIA – IRVINE **2506**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/24/1993 – 12/31/1996 FY97: –$299 Total: $65,701
Prin. Invest.: D W TOOHEY
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 30163 UNIVERSITY OF CALIFORNIA – IRVINE **2507**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/24/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: R J CICERONE
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 30304 UNIVERSITY OF CALIFORNIA – IRVINE **2508**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/31/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: S C TAYLER
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 70352 UNIVERSITY OF CALIFORNIA – IRVINE **2509**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/02/1993 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: D RICHARDSON
Tech. Officer: HQ/D K RUSSELL
CASE Category: 22 – COMPUTER SCIENCE

NGT 90173 UNIVERSITY OF CALIFORNIA – IRVINE **2510**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/25/1993 – 06/30/1997 FY97: $0 Total: $36,000
Prin. Invest.: F HERMES
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90271 UNIVERSITY OF CALIFORNIA – IRVINE **2511**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
01/09/1995 – 06/30/1997 FY97: $0 Total: $72,000
Prin. Invest.: F HERMES
Tech. Officer: HQ/D K RUSSELL
CASE Category: 45 – ELECTRICAL ENGR

NGT 1 52135 UNIVERSITY OF CALIFORNIA – IRVINE **2512**
GRADUATE DTUDENT RESEARCHERS PROGRAM
06/18/1996 – 06/30/1998 FY97: $10,000 Total: $32,000
Prin. Invest.: E J LAVERNIA, L DEL CASTILLO
Tech. Officer: LARC/W D BREWER, LARC/D M ROYSTER
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 5 30035 UNIVERSITY OF CALIFORNIA – IRVINE **2513**
A LABORATORY INVESTIGATION TO DETERMINE THE ROLE O REACTIVE NITROGEN BALANCE OF THE ATMOSPHERE
10/17/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: D TOOHEY
Tech. Officer: GSFC/G ASRAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 5 90002 UNIVERSITY OF CALIFORNIA – IRVINE **2514**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
01/06/1997 – 08/14/1997 FY97: $72,000 Total: $72,000
Prin. Invest.: F HERMES
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 44 – CIVIL ENGR

NAG 1 1883 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2515**
A FRACTURE MODEL FOR RESIN MATERIALS USING MOLECULAR SYNAMIC SIMULATION ANDFRACTURE ANALYSIS
01/06/1997 – 01/05/1998 FY97: $60,000 Total: $60,000
Prin. Invest.: S N ATLURI
Tech. Officer: LARC/I S RAJU, LARC/T S GATES
CASE Category: 49 – ENGINEERING, OTHER

NAG 1 1899 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2516**
STRATOSPHERIC AEROSOL MICROPHYSICS AND PHYSICAL CHEMISTRY: MODELING AND OBSERVATIONS
04/01/1997 – 03/31/1998 FY97: $115,000 Total: $115,000
Prin. Invest.: R P TURCO*Prin. Invest.:* NONE
Tech. Officer: LARC/G MADDERA, LARC/M M POTEAT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 1 1966 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2517**
RADIATIVE TRANSFER AND SATELLITE REMOTE SOUNDING OF CIRRUS CLOUDS USING FIRE–II–IFO DATA
09/08/1997 – 05/07/1998 FY97: $174,000 Total: $174,000
Prin. Invest.: K N LIOU, S C OU
Tech. Officer: LARC/D S MCDOUGAL
CASE Category: 31 – ATMOSPHERICSCIENCE

NAG 2 717 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2518**
FRENCH RHESUS PROJECT
06/21/1991 – 01/31/1998 FY97: $400,179 Total: $2,002,775
Prin. Invest.: V R EDGERTON, R R ROY, J A HODGSON
Tech. Officer: ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 799 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2519**
INFRARED POLARIZATION STUDY OF THE GALACTIC CENTER ARC
08/27/1992 – 09/30/1996 FY97: $0 Total: $66,750
Prin. Invest.: M R MORRIS
Tech. Officer: ARC/C D LAUGHLIN, ARC/C M GILLESPIE
CASE Category: 11 – ASTRONOMY

NAG 3 1325 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2520**
EVALUATION OF THE EFFECT OF MICROALLOYING ON CLEAV AGE OF MONOCRYST NIA1 USING A MINI DISK–BEND TEST
02/07/1992 – 03/06/1996 FY97: $0 Total: $150,000
Prin. Invest.: A J ARDELL
Tech. Officer: LERC/R D NORBE, LERC/M V NATHAL
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1419 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2521**
MICROGRAVITY FOAM STRUCTURE & RHEOLOGY
12/15/1992 – 12/31/1996 FY97: $0 Total: $275,000
Prin. Invest.: D DURIAN
Tech. Officer: LERC/J GLASGOW, LERC/R ANSARI
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1584 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2522**
SCIENCE PLANNING FOR THR TROPIX MISSION
03/25/1994 – 07/17/1998 FY97: –$25,610 Total: $49,390
Prin. Invest.: C T RUSSELL
Tech. Officer: LERC/J M HICKMAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1816 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2523**
FLAMMABILITY LIMITS AND FLAME DYNAMICS OF SPHERICA L FLAMES IN HOMOGENEOUS AND HETEROGENEOUS MIXTURE
04/18/1996 – 04/17/1997 FY97: $0 Total: $20,398
Prin. Invest.: D RONNEY
Tech. Officer: LERC/K WEILAND
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1819 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2524**
STUDIES IN THERMOCAPILIARY CONVECTION OF THE MARAN GONI–BERNARD TYPE
05/06/1996 – 05/05/2000 FY97: $54,000 Total: $134,000
Prin. Invest.: R E KELLY
Tech. Officer: LERC/B S SINGH
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1832 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2525**
INVESTIGATION OF MECHANISMS ASSOCIATED WITH NUCLEA TE BOILING UNDER MICROGRAVITY CONDITIONS
05/06/1996 – 05/05/2000 FY97: $116,482 Total: $236,482
Prin. Invest.: V K DHIR
Tech. Officer: LERC/D F SHAO
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1849 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2526**
THE MELTING OF AQUEOUS FOAMS
05/06/1996 – 05/31/2000 FY97: $88,000 Total: $228,000
Prin. Invest.: D J DURIAN
Tech. Officer: LERC/B SINGH
CASE Category: 13 – PHYSICS

NAG 3 1862 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2527**
FINITE SIZE EFFECTS NEAR THE LIQUID–GAS CRITICAL P OINT OF 3HE
05/08/1996 – 05/07/2000 FY97: $50,000 Total: $138,080
Prin. Invest.: J RUDNICK
Tech. Officer: LERC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 3 1889 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2528**
CONTAINERLESS RIPPLE TURBULENCE
05/31/1996 – 05/30/2000 FY97: $0 Total: $75,000
Prin. Invest.: S PUTTERMAN
Tech. Officer: LERC/R ROGERS
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 5 713 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2529**
ESTIMATION THEORY SATELLITE DATA ASSIMULATION AND ATMOSPHERIC PREDICTABILITY
09/15/1985 – 04/30/1997 FY97: $212,000 Total: $1,465,999
Prin. Invest.: M GHIL
Tech. Officer: GSFC/J PFAENDTNER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 1100 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2530**
THEORETICAL TECHNOLOGY RESEARCH FOR THE ISTP
11/01/1988 – 10/31/1997 FY97: $480,000 Total: $3,518,105
Prin. Invest.: M A ABDALLA
Tech. Officer: GSFC/S A CURTIS, GSFC/M H ACUNA
CASE Category: 13 – PHYSICS

NAG 5 1166 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2531**
CALIBRATION OF MAGNETICALLY INDUCED SOLAR VELOCITY
07/15/1989 – 03/31/1998 FY97: $79,955 Total: $629,955
Prin. Invest.: R K ULRICH
Tech. Officer: GSFC/A I POLAND
CASE Category: 11 – ASTRONOMY

NAG 5 1167 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2532**
PARTICIPATION IN CLUSTER MAGNETOMETER CONSORTIU
07/15/1989 – 06/30/1997 FY97: $0 Total: $649,351
Prin. Invest.: M G KIVELSON
Tech. Officer: GSFC/M ACUNA
CASE Category: 13 – PHYSICS

NAG 5 1309 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2533**
COBE DATA ANALYSIS & ATTITUDE VALIDATION
11/15/1989 – 12/31/1997 FY97: $0 Total: $660,792
Prin. Invest.: E L WRIGHT
Tech. Officer: GSFC/J MATHER
CASE Category: 11 – ASTRONOMY

NAG 5 1719 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2534**
PSPC SPECTRA OF X–RAY LUMINOUS "NORMAL" GALAXIES
08/13/1991 – 11/30/1996 FY97: $0 Total: $111,000
Prin. Invest.: M A MALKAN
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 1799 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2535**
AN INTENSIVE STUDY OF THE VARIABLE PLANETARY NEBUL AE
10/30/1991 – 09/30/1995 FY97: –$7 Total: $36,993
Prin. Invest.: L H ALLER
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2178 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2536**
STUDIES OF THE INTERSTELLAR MEDIUM WITH THE GHRS
01/11/1993 – 01/14/1998 FY97: $0 Total: $210,400
Prin. Invest.: M A JURA
Tech. Officer: GSFC/A SMITH
CASE Category: 11 – ASTRONOMY

NAG 5 2224 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2537**
DEVELOPMENT OF AN EARTH SYSTEM MODEL: ATMOSPHERE/ OCEAN DYNAMICS & TRACERSCHEMISTRY
02/25/1993 – 02/28/1997 FY97: $0 Total: $1,720,000
Prin. Invest.: C R MECHOSO, A ARAKAWA, R P TURCO
Tech. Officer: GSFC/J R FISCHER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2225 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2538**
DATA ANALYSIS AND KNOWLEDGE DISCOVERY IN GEOPHYSIC AL DATA-BASES
03/01/1993 – 03/31/1997 FY97: $0 Total: $801,000
Prin. Invest.: R MUNTZ
Tech. Officer: GSFC/J R FISCHER
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2591 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2539**
NUMERICAL MODELING OF THE GLOBAL ATMOSPHERE
05/12/1994 – 12/31/1996 FY97: $0 Total: $250,000
Prin. Invest.: A ARAKAWA
Tech. Officer: GSFC/M SUAREZ
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2653 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2540**
STELLAR AND CIRCUMSTELLAR STRUCTURES IN ALGOL BINARIES
07/27/1994 – 07/31/1997 FY97: $0 Total: $55,000
Prin. Invest.: M J PLAVEC
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2723 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2541**
SUBSONIC AIRCRAFT EMISSIONS IMPACTS ON UPPER TROPOSPHERIC MICROPHYSICS AND CHEMISTRY
09/25/1994 – 09/30/1997 FY97: $85,500 Total: $249,977
Prin. Invest.: R P TURCO
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2749 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2542**
SPATIALLY RESOLVED AND INTEGRATED INDICES OF SOLAR AND STELLAR ACTIVITY
10/06/1994 – 10/14/1997 FY97: $39,916 Total: $117,634
Prin. Invest.: R K ULRICH
Tech. Officer: GSFC/C H JACKMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2953 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2543**
THE HIDDEN OCEAN ON THE TOP OF THE COVE AND THE GEOMAGNETIC SECULAR VARIATION
06/07/1995 – 06/14/1998 FY97: $70,000 Total: $210,000
Prin. Invest.: S I BREGINSKY
Tech. Officer: GSFC/P TAYLOR
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 3012 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2544**
EXTENDING ROSAT LIGHT CURVES OF ECLIPTIC POLE AGN FORMATION AND GALAXY EVOLUTION
07/18/1995 – 07/31/1996 FY97: $0 Total: $49,600
Prin. Invest.: M A MALKAN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3089 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2545**
THREE-DIMENSIONAL MHD SIMULATIONS OF ACCRETION FLOWS IN ACTIVE GALACTIC NUCLEI
10/11/1995 – 10/14/1997 FY97: $0 Total: $200,000
Prin. Invest.: F V CORONITI
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3171 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2546**
POLAR MAGNETIC FIELD EXPERIMENT
02/21/1996 – 02/28/1998 FY97: $691,515 Total: $1,215,847
Prin. Invest.: C T RUSSELL
Tech. Officer: GSFC/R A HOFFMAN
CASE Category: 13 – PHYSICS

NAG 5 3235 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2547**
THE COUPLED MAGNETOSPHERE–IONOSPHERE: AURORAL ARC S AND SUBSTORM BREAKUP
05/16/1996 – 05/31/1998 FY97: $286,000 Total: $429,000
Prin. Invest.: F V CORONITI
Tech. Officer: GSFC/T J BIRMINGHAM, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 3244 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2548**
ANALYSIS OF TOTAL SOLAR IRRADIANCE VARIATIONS
05/28/1996 – 05/31/1998 FY97: $35,000 Total: $94,975
Prin. Invest.: J M PAP
Tech. Officer: GSFC/A I POLAND
CASE Category: 11 – ASTRONOMY

NAG 5 3252 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2549**
MICROWAVE ANISOTROPHY PROBE FOR MIDEX
06/06/1996 – 06/14/1998 FY97: $59,079 Total: $84,732
Prin. Invest.: E S WRIGHT
Tech. Officer: GSFC/C L BENNETT
CASE Category: 11 – ASTRONOMY

NAG 5 3309 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2550**
AN ISO DATA ANALYSIS BLOCK GRANT
07/31/1996 – 08/14/1997 FY97: $0 Total: $340,300
Prin. Invest.: E E BECKLIN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3722 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2551**
THE MAGNETOTAIL FLUX ROPES: THEIR STRUCTURE, EVOLUTION, MAGNETOSPHERIC DYNAMICS
02/12/1997 – 01/31/1998 FY97: $25,000 Total: $25,000
Prin. Invest.: K K KHURANA
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 3761 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2552**
RELATIONSHIP TO BURSTY BULK FLOW EVENTS AND SUBSTO
01/27/1997 – 09/30/1997 FY97: $31,000 Total: $31,000
Prin. Invest.: F V CORONITI
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 3764 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2553**
SOURCE DETERMINATION FOR SUBSTORM–RELATED ION INJE
02/13/1997 – 01/14/1998 FY97: $55,000 Total: $55,000
Prin. Invest.: R J STRANGEWAY
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 3863 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2554**
THERMAL AND DYNAMICAL PROCESSES IN THE EVOLUTION O SAT-ELLITES
02/14/1997 – 09/30/1997 FY97: $80,000 Total: $80,000
Prin. Invest.: G SCHUBERT
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3864 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2555**
MARS POLAR STUDIES
02/14/1997 – 09/30/1997 FY97: $33,000 Total: $33,000
Prin. Invest.: D A PAIGE
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3880 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2556**
DESIGN STUDY FOR A GLOBAL MAGNETOSPHERIC DYNAMICS
02/26/1997 – 02/28/1998 FY97: $137,824 Total: $137,824
Prin. Invest.: D T RUSSELL
Tech. Officer: GSFC/R HOWARD
CASE Category: 13 – PHYSICS

NAG 5 3956 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2557**
VENUS TECTONICS AND EVOLUTION
03/12/1997 – 02/14/1998 FY97: $27,900 Total: $27,900
Prin. Invest.: W M KAULA
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3964 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2558**
REGULATION OF VASCULAR NEUROSECRETION BY MECHANICA IN NERVE TERMINAL MEMBRANES
02/13/1997 – 04/30/1998 FY97: $83,021 Total: $83,021
Prin. Invest.: A D GRINNELL
Tech. Officer: GSFC/T SCOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 3982 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2559**
OBSERVATION & MODELING OF THE TRANSIENT GENERAL CI NORTH PACIFIC OCEAN
03/03/1997 – 01/31/1998 FY97: $110,341 Total: $110,341
Prin. Invest.: J C MCWILLIAMS
Tech. Officer: GSFC/B C DOUGLAS
CASE Category: 33 – OCEANOGRAPHY

NAG 5 4030 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2560**
ISSS–5 MEETING SUPPORT
03/06/1997 – 02/28/1998 FY97: $10,000 Total: $10,000
Prin. Invest.: D ASHOUR–ABDALLA
Tech. Officer: GSFC/J D BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 4066 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2561**
DISSIPATIVE PROCESSES IN THE MAGNETOPAUSE BOUNDARY NSFER EVENTS USING THE INTERBALL SPACECRAFT
03/10/1997 – 03/14/1998 FY97: $53,300 Total: $53,300
Prin. Invest.: D T RUSSELL
Tech. Officer: GSFC/J D BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 4067 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2562**
THEORETICAL INVESTIGATION OF THE HIGH–ALTITUDE CUS TIONS FROM INTERBALL ANDISTP SPACECRAFT
03/25/1997 – 02/28/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: D ASHOUR–ABDALLA
Tech. Officer: GSFC/J D BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 4117 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2563**
DYNAMICAL STUDIES OF PLANETARY AND SATELLITE ATMOS
02/28/1997 – 10/31/1997 FY97: $55,001 Total: $55,001
Prin. Invest.: P SCHUBERT
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4215 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2564**
PRISTINE IGNEOUS ROCKS AND THE EARLY DIFFERENTIATI MATERIALS
03/19/1997 – 03/31/1998 FY97: $165,000 Total: $165,000
Prin. Invest.: D H WARREN
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 – CHEMISTRY

NAG 5 4270 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2565**
ELECTRON PRECIPITATION FROM THE INNER MAGNETOSPHER THE MIDDLE ATMOSPHERE
04/04/1997 – 04/30/1998 FY97: $69,694 Total: $69,694
Prin. Invest.: D M THORNE
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 4299 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2566**
SOLAR WIND RECORD IN THE LUNAR REGOLITH
04/15/1997 – 02/28/1998 FY97: $85,000 Total: $85,000
Prin. Invest.: D F KERRIDGE
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4305 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2567**
INVESTIGATION OF NEBULAR PROCESSES THROUGH OXYGEN PRIMITIVE METEORITE MATERIALS
04/01/1997 – 03/31/1998 FY97: $30,108 Total: $30,108
Prin. Invest.: D A LESHIN
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4331 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2568**
COSMOCHEMICAL STUDIES: CHONDRITE COMPONENTS AND D METEOR-ITES
04/16/1997 – 01/31/1998 FY97: $140,000 Total: $140,000
Prin. Invest.: D T WASSON
Tech. Officer: GSFC/D F NAVA
CASE Category: 12 – CHEMISTRY

NAG 5 4339 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2569**
THE ROLE OF THIN CURRENT SHEETS IN PLASMA SHEET CO DISRUPTION
04/12/1997 – 02/28/1998 FY97: $80,200 Total: $80,200
Prin. Invest.: D L PRITCHETT
Tech. Officer: GSFC/J D BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 4367 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2570**
MARS SURVEYOR PROGRAM '98 LANDER LANDING SITE STUD
04/29/1997 – 03/31/1999 FY97: $40,000 Total: $40,000
Prin. Invest.: D A PAIGE
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4420 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2571**
NUMERICAL MODELING OF THE GLOBAL ATMOSPHERE
05/01/1997 – 04/30/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: A ARAKAWA
Tech. Officer: GSFC/M SUAREZ
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4449 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2572**
THE PROPERTIES AND BEHAVIOR OF MARTIAN CARBON DIOX
06/17/1997 – 02/28/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: D A PAIGE
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4475 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2573**
IS THE HIGH MULTIPLICITY OF T TAURI STARS IN TAURU PROBLEM FOR PLANETARY FORMATION
06/02/1997 – 06/30/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: D GHEZ
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4527 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2574**
SIMULATION OF EFFECTS OF PLANETARY WAVE OSCILLATIO AND IONOSPHERE USING A COUPLED THERMOSPHERE IONOS
05/06/1997 – 04/30/1998 FY97: $62,455 Total: $62,455
Prin. Invest.: D PARISH, NONE
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 4568 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2575**
PARTICLE GROWTH AND AGGLOMERATION IN THE SOLAR NEB
05/30/1997 – 12/31/1998 FY97: $65,000 Total: $65,000
Prin. Invest.: D T WASSON
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4612 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2576**
CO-INVESTIGATOR PARTICIPATION IN THE MARS 96 MISSI MARTIAN MAGNETIC FIELD
05/21/1997 – 04/30/1998 FY97: $15,000 Total: $15,000
Prin. Invest.: D T RUSSELL
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4628 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2577**
THREE-DIMENSIONAL NUMERICAL SIMULATIONS OF LITHOSP DYNAMICS
05/21/1997 – 05/31/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: G SCHUBERT
Tech. Officer: GSFC/B BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4661 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2578**
SOME STUDIES OF FLUX ROPES IN THE EARTH'S MAGNETOT
06/05/1997 – 05/31/1998 FY97: $75,153 Total: $75,153
Prin. Invest.: D K KHURANA
Tech. Officer: GSFC/J GREBOWSKY
CASE Category: 13 – PHYSICS

NAG 5 4680 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2579**
AN INTEGRATED STUDY OF RING CURRENT DYNAMICS DURIN
06/17/1997 – 05/31/1998 FY97: $94,000 Total: $94,000
Prin. Invest.: D M THORNE
Tech. Officer: GSFC/J GREBOWSKY
CASE Category: 13 – PHYSICS

NAG 5 4683 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2580**
STUDIES OF THE INTRINSIC COMPLEXITIES OF MAGNETOTA THEORY AND OBSERVATIONS
06/09/1997 – 04/30/1998 FY97: $84,800 Total: $84,800
Prin. Invest.: D ASHOUR-ABDALLA
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 4684 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2581**
DEVELOPMENT OF A MODEL FOR THE NIGHT SIDE MAGNETOP LATIONS
06/09/1997 – 04/30/1998 FY97: $68,335 Total: $68,335
Prin. Invest.: D RAEDER
Tech. Officer: GSFC/J GREBOWSKY
CASE Category: 13 – PHYSICS

NAG 5 4685 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2582**
GLOBAL MHD SIMULATIONS OF MESOSCALE STRUCTURES AT NDARY
06/05/1997 – 04/30/1998 FY97: $64,500 Total: $64,500
Prin. Invest.: P BERCHEM
Tech. Officer: GSFC/J GREBOWSKY
CASE Category: 13 – PHYSICS

NAG 5 4688 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2583**
TOWARD OTHER SOLAR SYSTEMS: GAS, DUST, BROWN DWARF
06/17/1997 – 04/30/1998 FY97: $49,000 Total: $49,000
Prin. Invest.: D M ZUCKERMAN
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4704 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2584**
ISOTOPIC INVESTIGATIONS OF NEBULAR AND PARENT-BODY SENSITIVITY ION MICROPROBE
08/13/1997 – 05/31/1998 FY97: $80,000 Total: $80,000
Prin. Invest.: D D MCKEEGAN
Tech. Officer: GSFC/D F NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4766 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2585**
CHONDRITIC METEORITES: NEBULAR AND PARENT–BODY FO
06/05/1997 – 05/31/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: D E RUBIN
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4837 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2586**
2ND YR RENEWAL "INFLAMMATORY AND MECHANICAL COMPON INJURY"
06/26/1997 – 03/31/1998 FY97: $185,361 Total: $185,361
Prin. Invest.: J TIDBALL
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 6008 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2587**
ACTIVE REGION IDENTIFICATION USING MDI IMAGES
08/19/1997 – 06/30/1998 FY97: $24,030 Total: $24,030
Prin. Invest.: D M PAP
Tech. Officer: GSFC/W WAGNER
CASE Category: 13 – PHYSICS

NAG 5 6082 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2588**
ISOTOPIC AND EXPERIMENTAL CONSTRAINTS ON THE GENES RTIAN METEORITE ALH84001
08/26/1997 – 07/31/1998 FY97: $69,000 Total: $69,000
Prin. Invest.: L A LESHIN
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 6243 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2589**
THE NEAR–EARTH PLASMA SHEET AND ITS RESPONSE TO TH ON, AND LARGE–SCALE DISTURBANCES
08/19/1997 – 06/30/1998 FY97: $70,000 Total: $70,000
Prin. Invest.: P R LYONS
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 6265 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2590**
ASSYM. AURORAL PROCESSES
08/21/1997 – 06/30/1998 FY97: $80,200 Total: $80,200
Prin. Invest.: D M THORNE
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 6272 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2591**
CONDENSATION OF THE MARTIAN ATMOSPHERE DURING POLA DYNAMICS & MICROPHYSICS
08/27/1997 – 08/31/1998 FY97: $29,800 Total: $29,800
Prin. Invest.: D PAIGE
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 6332 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2592**
OBSERVATIONAL AND THEORETICAL STUDIES OF SOLAR STR
09/30/1997 – 04/30/1998 FY97: $205,019 Total: $205,019
Prin. Invest.: D K ULRICH
Tech. Officer: GSFC/W J WAGNER
CASE Category: 11 – ASTRONOMY

NAG 5 6386 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2593**
GENERAL CIRCULATION OF THE SOUTHERN HEMISPHERE
09/26/1997 – 05/31/1998 FY97: $95,000 Total: $95,000
Prin. Invest.: C R MECHOSO
Tech. Officer: GSFC/J A KAYE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 8 1236 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2594**
OSTWALD RIPENING OF LIQUID & SOLID DROPLETS IN LIQUID METAL MATRICES
05/17/1996 – 05/31/1998 FY97: $50,000 Total: $150,000
Prin. Invest.: A J ARDELL
Tech. Officer: MSFC/C R TALLEY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 9 814 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2595**
USE OF MICROGRAVITY
08/01/1995 – 09/17/1998 FY97: $220,000 Total: $645,000
Prin. Invest.: E DIRKSEN
Tech. Officer: JSC/N PELLIS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 9 864 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2596**
SUESS UREY DISCOVERY
03/15/1996 – 04/30/1998 FY97: $0 Total: $25,000
Prin. Invest.: K D MCKEEGAN
Tech. Officer: JSC/E STANSBERY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 472 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2597**
THEORTICAL STUDIES IN SUPPORT OF A SOLAR SEISMOLOGY MISSION
06/01/1983 – 09/30/1997 FY97: $0 Total: $2,017,174
Prin. Invest.: R ULRICH, NONE
Tech. Officer: HQ/J D BOHLIN, HQ/D S SPICER
CASE Category: 13 – PHYSICS

NAGW 1021 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2598**
GENERAL CIRCULATION OF THE SOUTHERN HEMISPHERE STRATOSPHERE
05/01/1987 – 06/30/1997 FY97: $81,600 Total: $872,603
Prin. Invest.: C R MECHOSO
Tech. Officer: HQ/R D MCPETERS, HQ/M J PRATHER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 1874 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2599**
DYNAMICAL STUDIES OF THE ATMOSPHERES OF VENUS, JUP ITER, URANUS AND IO
01/03/1990 – 09/30/1997 FY97: $0 Total: $459,341
Prin. Invest.: G SCHUBERT
Tech. Officer: HQ/J BERGSTRAHL
CASE Category: 11 – ASTRONOMY

NAGW 2047 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2600**
AN INVESTIGATION OF THE STRUCTURE AND MOTION OF TH E JOVIAN MAGNETOSPHERE
05/05/1990 – 03/31/1996 FY97: $0 Total: $199,608
Prin. Invest.: K K KHURANA
Tech. Officer: HQ/M M MELLOTT, HQ/T PERRY
CASE Category: 13 – PHYSICS

NAGW 2054 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2601**
SUBSTORM DYNAMICS IN THE NEAR–EARTH MAGNETOTAIL
05/05/1990 – 03/31/1996 FY97: $0 Total: $347,726
Prin. Invest.: R MCPHERRON
Tech. Officer: HQ/M M MELLOTT, HQ/T PERRY
CASE Category: 13 – PHYSICS

NAGW 2085 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2602**
DYNAMICS OF THE ORIGIN OF THE SOLAR SYSTEM
07/23/1990 – 01/31/1997 FY97: $0 Total: $267,345
Prin. Invest.: W H KAULA
Tech. Officer: HQ/T A MAXWELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2086 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2603**
THERMAL AND DYNAMICAL PROCESSES IN THE EVOLUTION O F PLANETS AND SATELLITES
05/14/1990 – 09/30/1997 FY97: $0 Total: $329,446
Prin. Invest.: G SCHUBERT
Tech. Officer: HQ/T A MAXWELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2147 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2604**
NAGW–2147/UNIV OF CA @ LOS ANGELES/PAEOBIOLOGIC STUDIES OF THE ANTIQUITY & PRECAMBIAN EVOLUTION
07/13/1990 – 09/30/1997 FY97: $0 Total: $509,531
Prin. Invest.: J W SCHOPF
Tech. Officer: HQ/J D RUMNEL, HQ/S W FOGLEMAN
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2243 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2605**
NAGW–2243/UNIV CA @ LOS ANGELES/METEORITIC CLUSES REGARDING NEBULAR & ASTEROIDAL TEMPERATURES
06/13/1991 – 12/31/1996 FY97: $0 Total: $216,690
Prin. Invest.: J T WASSON
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 2270 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2606**
A SEARCH FOR BROWN DWARFS AND HIGH MASS PLANETS
12/07/1990 – 10/31/1997 FY97: $0 Total: $280,800
Prin. Invest.: B M ZUCKERMAN
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 2384 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2607**
MARS 94 SEISMOLOGY PARTICIPATION
06/17/1991 – 07/31/1997 FY97: $0 Total: $100,599
Prin. Invest.: P M DAVIS
Tech. Officer: HQ/W QUAIDE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 2573 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2608**
CO–INVESTIGATOR PARTICIPATION IN THE MARS '94 MISS ION: STUDIES OF THE MARTIAN MAGNETIC FIELD
08/22/1991 – 01/31/1997 FY97: $0 Total: $197,500
Prin. Invest.: C T RUSSELL
Tech. Officer: HQ/W L QUAIDE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 2575 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2609**
CO–INVESTIGATOR PARTICIPATION IN THE MARS '94 MISS ION STUDIES: TOPSIDE SOUNDER AND MAGNETOMETER
08/02/1991 – 01/31/1996 FY97: –$40 Total: $70,086
Prin. Invest.: J LUHMANN
Tech. Officer: HQ/W L QUAIDE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 2646 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2610**
NAGW–2646/UNIV CA/THREE–DIMENSIONAL NUMERICAL SIMU LATIONS OF LITHOSPHERE &MANTLE DYNAMICS
08/19/1991 – 06/30/1996 FY97: –$523 Total: $349,463
Prin. Invest.: G SCHUBERT
Tech. Officer: HQ/M BALTUCK, HQ/B J MALCOLM
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2842 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2611**
CONTAINERLESS CAPILLARY WAVE TURBULENCE
01/17/1992 – 11/30/1995 FY97: –$33 Total: $318,967
Prin. Invest.: S J PUTTERMAN, M BARMATZ
Tech. Officer: HQ/B M CARPENTER
CASE Category: 13 – PHYSICS

NAGW 2997 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2612**
FINITE ELEMENT MODELING OF ANDEAN TECTONICS
03/17/1992 – 12/31/1995 FY97: –$12 Total: $123,988
Prin. Invest.: W M KAULA
Tech. Officer: HQ/R E MURPHY, HQ/D M BUTLER
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3064 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2613**
NAGW–3064/UNIV CA @ LOS ANGELES/ISOTOPIC TRACERS O F INTERSTELLAR CHEMISTRYIN METEORITIC ORGANIC
05/04/1992 – 05/31/1996 FY97: $0 Total: $114,890
Prin. Invest.: J F KERRIDGE
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3115 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2614**
NAGW–3115/UNIV CA/ISO KEY PROJECT: DUST DEBRIS AROUND SOLAR MASS STARS
07/27/1992 – 09/30/1997 FY97: $0 Total: $544,819
Prin. Invest.: E E BECKLIN
Tech. Officer: HQ/L J CAROFF
CASE Category: 11 – ASTRONOMY

NAGW 3132 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2615**
LDYNAMICS OF OUTER SOLAR SYSTEM ORIGIN AND EVOLUTI ON
07/14/1992 – 05/31/1996 FY97: $0 Total: $170,000
Prin. Invest.: NEWMAN
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3308 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2616**
NAGW–3308/UCLA/PRISTINE IGNEOUS ROCKS AND THE GENE SIS OF EARLY PLANETARY CRUSTS
12/22/1992 – 03/31/1997 FY97: $0 Total: $506,372
Prin. Invest.: P H WARREN
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3426 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2617**
ASSESSMENT OF ION SCAVENGING PROCESSES AT VENUS AN D THEIR EVOLUTIONARY SIGNIFICANCE
02/24/1993 – 06/30/1996 FY97: -$113 Total: $79,305
Prin. Invest.: J G LUHMAN
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3468 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2618**
DEFINITION AND DEVELOPMENT OF A PROTOTYPE MARS SEI SMIC STATION
04/09/1993 – 09/01/1997 FY97: $0 Total: $300,000
Prin. Invest.: P M DAVIS
Tech. Officer: HQ/H C BRINTON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3476 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2619**
OBL. WAV. IN HOT MAG. PLAS. MOD. BY A GEN. LOR. (K APPA)DIS.
03/27/1993 – 03/31/1996 FY97: $0 Total: $220,500
Prin. Invest.: R M THORNE
Tech. Officer: HQ/E C WHIPPLE, HQ/G L WITHBROE
CASE Category: 13 – PHYSICS

NAGW 3477 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2620**
STRUCTURE AND DISSIPATION IN COLLISIONLESS SHOCKS
03/29/1993 – 08/31/1997 FY97: $0 Total: $240,530
Prin. Invest.: C T RUSSELL
Tech. Officer: HQ/F C WHIPPLE, HQ/G L WITHBROE
CASE Category: 13 – PHYSICS

NAGW 3484 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2621**
COLDSPOTS AND HOTSPOTS QUANTITATIVE INVESTIGATIONS OF VENUS TECTONICS
03/27/1993 – 09/30/1997 FY97: -$114 Total: $107,283
Prin. Invest.: D L BINDSCHADLER
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3497 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2622**
PLASMA WAVES IN THE MAGNETOSHEATH OF VENUS
04/06/1993 – 03/14/1996 FY97: -$9,863 Total: $74,137
Prin. Invest.: R J STRANGEWAY
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3535 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2623**
DIFFERENTIATED METEORITES AND THE COMPOONENTS OF C HONDRITES
04/22/1993 – 04/30/1997 FY97: $0 Total: $688,638
Prin. Invest.: J WASSON
Tech. Officer: HQ/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3546 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2624**
VENUS: DYNAMICS OF ITS INTERIOR, SURFACE AND LOWER ATMOSPHERE
04/22/1993 – 09/30/1995 FY97: -$90 Total: $128,910
Prin. Invest.: G SCHUBERT
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3590 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2625**
ASYMMETRIC AURORAL PROCESSES ON THE GIANT PLANETS
05/20/1993 – 03/31/1996 FY97: $0 Total: $157,600
Prin. Invest.: R THORNE
Tech. Officer: HQ/H C BRINTON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3661 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2626**
SOME STUDIES OF THE MACRO AND MICRO STRUCTURE OF T HE VENUSIAN BOW SHOCK AND THE IONOSPHERE
06/16/1993 – 05/31/1996 FY97: $0 Total: $103,200
Prin. Invest.: K K KHURANA
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3671 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2627**
STRATOSPHERIC HETEROGENEOUS CHEMISTRY AND MICROPHY SICS: MODEL, DEVELOPMENT, VALIDATION AND APPLICAT
06/30/1993 – 06/30/1997 FY97: $50,000 Total: $387,500
Prin. Invest.: R TURCO, NONE
Tech. Officer: HQ/J A KAYE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3915 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2628**
INTEGRATING DATA ANALYSIS VISUALIZATION & DATA MGM T IN A HETEROGENEOUS DISTRIBUTED ENVIRONMENT
04/11/1994 – 04/30/1997 FY97: $0 Total: $435,600
Prin. Invest.: R R MUNTZ
Tech. Officer: HQ/G H MUCKLOW, HQ/J H BREDECAMP
CASE Category: 22 – COMPUTER SCIENCE

NAGW 3948 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2629**
A STUDY OF FLOWS AND BOUNDARY LAYERS IN THE MAGNET OSHEATH AND OUTER MAGNETOSPHERE
04/20/1994 – 03/31/1997 FY97: $0 Total: $128,500
Prin. Invest.: C T RUSSELL
Tech. Officer: HQ/E C WHIPPLE, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 3974 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2630**
A STUDY OF CURRENTS IN THE MIDDLE AND OUTER MAGNET OSPHERE
05/10/1994 – 09/30/1997 FY97: $0 Total: $157,500
Prin. Invest.: C T RUSSELL, NONE
Tech. Officer: HQ/E C WHIPPLE, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4063 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2631**
SOLAR WIND EFFECTS ON ATMOSPHERES OF WEAKLY MAGNET IZED BODIES: MARS, TITAN AND THE MOON
06/28/1994 – 04/30/1996 FY97: -$320 Total: $69,680
Prin. Invest.: J LUHMANN
Tech. Officer: HQ/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4112 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2632**
DEVELOPMENT OF HIGH RESOLUTION–HIGH SENSITIVITY ION MICROPROBE FACILITY FORCOSMOCHEMICAL
08/17/1994 – 05/31/1997 FY97: $0 Total: $239,997
Prin. Invest.: K D MCKEEGAN
Tech. Officer: HQ/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 4115 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2633**
RECENT LIQUID WATER ON MARS
08/16/1994 – 03/31/1997 FY97: $0 Total: $150,000
Prin. Invest.: D A PAIGE
Tech. Officer: HQ/M MEYER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4130 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2634**
RELATIONSHIP OF BURSTY BULK FLOW EVENTS AND SUBSTO RMS
09/21/1994 – 09/30/1997 FY97: $0 Total: $57,800
Prin. Invest.: F V CORONITI
Tech. Officer: HQ/E C WHIPPLE, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4223 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2635**
DEVELOPMENTAL GENES AND THE CAMBRIAN RADIATION
12/19/1994 – 07/31/1997 FY97: $113,000 Total: $304,900
Prin. Invest.: D JACOBS
Tech. Officer: HQ/M MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 4242 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2636**
INTEGRATING DISTRIBUTED OBJECT MANAGEMENT TECH AND EOSDIS
01/10/1995 – 03/31/1996 FY97: $0 Total: $1,217,051
Prin. Invest.: R MUNTZ
Tech. Officer: HQ/R S MCGINNIS
CASE Category: 22 – COMPUTER SCIENCE

NAGW 4254 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2637**
UNIVERSITY ADVANCE DESIGN PROGRAM
01/13/1995 – 06/09/1996 FY97: $0 Total: $17,350
Prin. Invest.: R X MEYER
Tech. Officer: HQ/A S MCGEE
CASE Category: 49 – ENGINEERING, OTHER

NAGW 4327 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2638**
RESEARCH IN PLANETARY POLAR PROCESSES
02/24/1995 – 09/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: D PAIGE
Tech. Officer: HQ/H BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 4532 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2639**
THE ROLE OF THIN CURRENT SHEETS IN PLASMA SHEET CO NVECTION AND DISRUPTION
06/06/1995 – 02/28/1998 FY97: $0 Total: $149,000
Prin. Invest.: P L PRITCHETT
Tech. Officer: HQ/R A HOFFMAN, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4541 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2640**
GLOBAL MHD SIMULATIONS OF MESOSCALE STRUCTURES AT THE MAGNETOSPHERIC BOUNDARY
05/26/1995 – 09/30/1997 FY97: $0 Total: $120,000
Prin. Invest.: J BERCHEM
Tech. Officer: HQ/R A HOFFMAN, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4543 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2641**
DEVELOPMENT OF A MODEL FOR THE NIGHT SIDE MAGNETOP AUSE USING GLOBAL SIMULATIONS
05/26/1995 – 09/30/1997 FY97: $0 Total: $127,650
Prin. Invest.: J RAEDER
Tech. Officer: HQ/R A HOFFMAN, HQ/R A BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4553 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2642**
STUDIES OF THE INTRINSIC COMPLEXITIES OF MAGNETOTA IL ION DISTRIBUTIONS: THEORY AND OBSERVATION
05/30/1995 – 04/30/1997 FY97: $0 Total: $165,300
Prin. Invest.: M ASHOUR–ABDALLA, NONE
Tech. Officer: HQ/R HOFFMAN
CASE Category: 13 – PHYSICS

NAGW 4615 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2643**
OPERATION OF THE PLANETARY PLASMA INTERACTIONS NODE OF THE PLANETARY DATA SYSTEM
08/02/1995 – 03/30/1996 FY97: $0 Total: $250,150
Prin. Invest.: R WALKER
Tech. Officer: HQ/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAGW 4770 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2644**
IS THE HIGH MULTIPLICITY OF T TAURI STARS IN TAURU S TYPICAL? A POTENTIAL PROBLEM FOR PLANETARY FOR
09/16/1995 – 06/30/1998 FY97: $0 Total: $79,503
Prin. Invest.: A CHEZ
Tech. Officer: HQ/P G ROGERS
CASE Category: 11 – ASTRONOMY

NAGW 4840 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2645**
MODELLING WAVE DISTURBANCES FROM THE IMPACT OF COM ET SHOEMAKER–LEVY 9 W/JUPITER: EFFECTS OF WATER C
10/06/1995 – 09/30/1997 FY97: $0 Total: $73,495
Prin. Invest.: G SCHUBERT
Tech. Officer: HQ/E BARKER
CASE Category: 11 – ASTRONOMY

NAGW 4844 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2646**
NEAR INFRARED SOLAR ORBIT TELESCOPE
10/11/1995 – 06/30/1998 FY97: $0 Total: $62,475
Prin. Invest.: E L WRIGHT
Tech. Officer: HQ/M KAPLAN, HQ/D W WEEDMAN
CASE Category: 13 – PHYSICS

NAGW 4899 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2647**
ON–LINE ACCESS TO GROUND BASED MAGNETOGRAMS
01/26/1996 – 11/30/1996 FY97: $0 Total: $12,375
Prin. Invest.: G LE
Tech. Officer: HQ/J F WILLETT
CASE Category: 13 – PHYSICS

NAGW 4926 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2648**
INTERNET ACCESS TO ISEE–1 AND 2 MAGNETOMETER DATA
02/24/1996 – 12/31/1996 FY97: $0 Total: $10,646
Prin. Invest.: R J STRANGEWAY
Tech. Officer: HQ/J B WILLETT, HQ/L DEMAS
CASE Category: 13 – PHYSICS

NAGW 4956 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2649**
SIMULATIONS OF THE EFFECTS OF PLANETARY WAVE OSCIL LATIONS ONTHERMOSPHERE &IONOSPHERE USING A COUPL
03/26/1996 – 03/31/1998 FY97: $0 Total: $59,952
Prin. Invest.: R P TURCO
Tech. Officer: HQ/M M MELLOTT
CASE Category: 13 – PHYSICS

NAGW 5008 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2650**
ISOTOPIC CHARACTERIZATION OF PREBIOTIC SYNTHESIS O F ORGANIC MATTER
03/21/1996 – 08/31/1997 FY97: $0 Total: $89,125
Prin. Invest.: J F KERRIDGE
Tech. Officer: HQ/M MEYER, HQ/J RAHE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 5016 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2651**
INFLAMMATORY & MECHANICAL COMPONENTS OF MUSCLE INJ URY
04/02/1996 – 03/31/1998 FY97: $0 Total: $176,570
Prin. Invest.: J G TIDBALL, PH.D.
Tech. Officer: HQ/F SULZMAN
CASE Category: 56 – MEDICL

NAGW 5024 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2652**
THE PROPERTIES AND BEGAVIOR OF MARTIN CARBON DIOXIDE FROST
04/11/1996 – 09/30/1997 FY97: $0 Total: $40,000
Prin. Invest.: D A PAIGE
Tech. Officer: HQ/H BRINTON, HQ/J RAHE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5029 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2653**
OBSERVATIONS AND MODELING OF THE TRANSIENT GENERAL CIRCULA-TION OF THE PACIFIC OCEAN
04/11/1996 – 06/30/1997 FY97: $0 Total: $115,710
Prin. Invest.: J MC WILLIAMS
Tech. Officer: HQ/B C DOUGLAS, HQ/R C HARRISS
CASE Category: 33 – OCEANOGRAPHY

NAGW 5037 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2654**
SOLAR-WIND RECORD IN THE LUNAR REGOLITH
04/11/1996 – 08/31/1997 FY97: $0 Total: $85,000
Prin. Invest.: J F KERRIDGE
Tech. Officer: HQ/J NUTH, HQ/J RAHE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5050 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2655**
AN INTERNATIONAL SYMPOSIUM ON THE SOURCES AND DETE CTION OF DARK MATTER IN THE UNIVERSE
04/30/1996 – 01/31/1997 FY97: $0 Total: $9,602
Prin. Invest.: D B CLINE
Tech. Officer: HQ/L J KALUZIENSKI
CASE Category: 11 – ASTRONOMY

NAGW 5099 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2656**
CHONDRITIC METEORITES:NEBULAR AND PARENT BODY FORMATION PROCESS
06/28/1996 – 05/31/1997 FY97: $0 Total: $50,000
Prin. Invest.: A E RUBIN
Tech. Officer: HQ/J NUTH, HQ/H C BRINTON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 5208 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2657**
CONDENSATION OF MARTIAN ATMOSPHERE DURING POLAR NIGHT: RADI-ATION DYNAMICS &MICROPHYSICS
09/25/1996 – 08/31/1997 FY97: $28,962 Total: $28,962
Prin. Invest.: D A PAIGE
Tech. Officer: HQ/J BERGSTRALH, HQ/H C BRINTON
CASE Category: 11 – ASTRONOMY

NAGW 5212 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2658**
SUBSTORM BREAK-UP AS A COUPLED MAGNETOSPHERE-IONOS PHERE INSTABILITY
09/25/1996 – 08/31/1997 FY97: $59,920 Total: $59,920
Prin. Invest.: R PELLAT
Tech. Officer: HQ/J D BOHLIN, HQ/G L WITHBROE
CASE Category: 13 – PHYSICS

NAS 1 19956 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2659**
SAGE II SCIENTIFIC INVESTIGATIONS
04/12/1993 – 04/15/1996 FY97: $0 Total: $260,000
Prin. Invest.: R P TURCO
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 30373 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2660**
MAGNETIC FIELD INVESTIGATION FOR POLAR SPACECRAFT
04/12/1989 – 02/24/1998 FY97: $0 Total: $3,405,438
Prin. Invest.: C T RUSSELL
Tech. Officer: GSFC/D CROSBY
CASE Category: 11 – ASTRONOMY

NAS 9 18773 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2661**
RELATIONSHIP OF LONG-TERM ELECTROMYOGRAPHIC ACTIVI TY TO MUSCLE ATROPHY & PERFORMANCE
10/27/1992 – 09/15/1997 FY97: $125,000 Total: $1,391,000
Prin. Invest.: R EGGERTON
Tech. Officer: JSC/A PLAZA
CASE Category: 51 – BIOLOGY (EXCLUDINGENVIR)

NAS 9 19400 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2662**
FLIGHT EXPERIMENT/CORRELATION OF DISCONJUGATE EYE TORSION WITH THE TIME COURSE OF SPACE ADAP SYNDROM
07/31/1995 – 06/30/1998 FY97: $108,042 Total: $248,042
Prin. Invest.: C MARKHAM
Tech. Officer: JSC/A L LEE
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 2 374 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2663**
"LABORATORY FOR FLIGHT-SYSTEMS RESEARCH"
10/01/1987 – 12/31/1997 FY97: $1,308,497 Total: $9,756,158
Prin. Invest.: A V BALAKRISHNAN
Tech. Officer: DFRC/K W ILIFF
CASE Category: 49 – ENGINEERING, OTHER

NCC 2 804 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2664**
"PSYCHOPHYSIOLOGY OF HUMANS IN SPACE"
06/03/1993 – 09/30/1997 FY97: $130,631 Total: $906,254
Prin. Invest.: P S COWINGS
Tech. Officer: ARC/A R HARGENS
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 2 826 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2665**
ADVANCING THE SIENCE EXPERIENCES OF YOUNG CHILDREN (2–5 YEARS)
09/16/1993 – 09/30/1996 FY97: –$1,281 Total: $279,555
Prin. Invest.: D GELMAN, L TRAVIS, L WATROUS
Tech. Officer: DFRC/E COX, DFRC/R J ROSS
CASE Category: 62 – PSYCHOLOGY SOCIAL ASPECTS

NCC 5 149 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2666**
GRAND CHALLENGE RESEARCH
08/09/1996 – 08/09/1999 FY97: $645,000 Total: $1,000,000
Prin. Invest.: C MECHOSO
Tech. Officer: GSFC/J R FISCHER
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NGT 30148 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2667**
NGT-30148/UNIV CA @ LOS ANGELES/GLOBAL CHANGE FELLOWSHIP PROGRAM
10/27/1992 – 08/31/1996 FY97: –$4,096 Total: $61,904
Prin. Invest.: S M ANDERSON
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30238 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2668**
NGT-30238/UNIV OF CA @ LOS ANGELES/GLOBAL CHANGE FELLOWSHIP PROGRAM
10/02/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: R P TURCO
Tech. Officer: HQ/R A SCHIFFER, HQ/G ASRAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 30334 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2669**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/07/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: R P TURCO
Tech. Officer: HQ/R A SCHIFFER, HQ/G ASRAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 51148 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2670**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/28/1993 – 08/31/1996 FY97: –$6 Total: $65,994
Prin. Invest.: W GEKELMAN
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51173 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2671**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/19/1993 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: P P FRIEDMAN
Tech. Officer: ARC/M MOORE
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51175 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2672**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/18/1993 – 12/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: V R EDGERTON
Tech. Officer: ARC/M MOORE
CASE Category: 56 – MEDICL

NGT 51273 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2673**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/14/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: D A PAUGE
Tech. Officer: JPL/C HIX
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 51417 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2674**
GSRP
08/29/1995 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: C A FULLER
Tech. Officer: HQ/G LESANE
CASE Category: 56 – MEDICL

NGT 90301 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2675**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UNDERRE PRESENTED MINORITY FOCUS)
05/17/1996 – 07/31/1996 FY97: $0 Total: $12,000
Prin. Invest.: R CRIDDLE
Tech. Officer: HQ/M MATEU
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30093 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2676**
AEROSOLS IN THE PACIFIC BASIN TROPOSPHERE–THEIR_PH PROPERTIES AND IMPACT ONCLIMATE/REDEMANN
09/10/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: R P TURCO
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50013 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2677**
VIBRATION REDUCTION IN HELICOPTER ROTORS USING AN D TRAILING–EDGE FLAP
01/02/1997 – 08/31/1997 FY97: $11,000 Total: $11,000
Prin. Invest.: P P FRIEDMANN
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 50143 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2678**
SATELLITE DETECTION OF MESOSCALE AND SUB–MESOSCALE S AND THEIR EFFECTS ON PLANKTON DISTRIBUTIONS
09/11/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: W M HAMNER
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 8 52844 UNIVERSITY OF CALIFORNIA – LOS ANGELES **2679**
GRADUATE STUDENT RESEARCH PROGRAM FELLOWSHIP
08/22/1997 – 09/01/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: M A ABDOU
Tech. Officer: MSFC/J DOWDY
CASE Category: 46 – MECHANICAL ENGR

NAG 5 2825 UNIVERSITY OF CALIFORNIA – RIVERSIDE **2680**
OSSE MAPPING OF DIFFUSE GALACTIC GAMMA–RAY EMISSIO N
12/14/1994 – 12/14/1996 FY97: $0 Total: $42,373
Prin. Invest.: O T TUMER, W R PURCELL
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3008 UNIVERSITY OF CALIFORNIA – RIVERSIDE **2681**
ANALYSIS OF M82 X-RAY DATA OBTAINED BY GINGA THE MAGNETIC CYCLE IN AR LACERTAE
07/14/1995 – 07/31/1996 FY97: $0 Total: $13,476
Prin. Invest.: D BHATTACHARYA
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3108 UNIVERSITY OF CALIFORNIA – RIVERSIDE **2682**
INTENSIVE SEARCH FOR HIGH ENERGY DISCRETE SOURCES IN THE GALACTIC CENTER REGION; OSSE MAPPING OF ...
10/26/1995 – 10/31/1996 FY97: $0 Total: $29,944
Prin. Invest.: D D DIXON
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3349 UNIVERSITY OF CALIFORNIA – RIVERSIDE **2683**
DUST EMISSION FROM CLASS O PROTOSTARS IN THE SERPE NS CLOUD CORE
08/12/1996 – 08/14/1998 FY97: $0 Total: $18,000
Prin. Invest.: M A BARSONY
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3666 UNIVERSITY OF CALIFORNIA – RIVERSIDE **2684**
OSSE 511 KEV OBSERVATIONS AND MAPPING ($15,000); C GGERED BATSE GAMMA RAYA BURSTS ($30,000);
12/31/1996 – 12/31/1997 FY97: $70,000 Total: $70,000
Prin. Invest.: D D DIXON
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3925 UNIVERSITY OF CALIFORNIA – RIVERSIDE **2685**
CONTINUED STUDIES OF SOLAR AND EARTH-ALBEDO NEUTRO
02/19/1997 – 02/14/1998 FY97: $20,000 Total: $20,000
Prin. Invest.: T O'NEILL
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 5116 UNIVERSITY OF CALIFORNIA – RIVERSIDE **2686**
THE TIGRE INSTRUMENT FOR INTERMEDIATE – ENERGY GAMMA-RAY ASTRONOMY FROM 0.3 TO 100MEV
04/09/1997 – 11/30/1997 FY97: $349,590 Total: $349,590
Prin. Invest.: A D ZYCH
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5118 UNIVERSITY OF CALIFORNIA – RIVERSIDE **2687**
AN ARCSECOND RESOLUTION: AXGAM
04/09/1997 – 12/31/1997 FY97: $200,000 Total: $200,000
Prin. Invest.: O T TUMER
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 8 957 UNIVERSITY OF CALIFORNIA – RIVERSIDE **2688**
ADVANED LIQUID-LIQUID DIFFUSION INSTRUMENT FOR PROTEIN CRYSTAL GROWTH
05/04/1993 – 09/30/1996 FY97: $0 Total: $957,292
Prin. Invest.: A MCPHERSON
Tech. Officer: MSFC/B J HERRON
CASE Category: 12 – CHEMISTRY

NAG 8 1164 UNIVERSITY OF CALIFORNIA – RIVERSIDE **2689**
MACRINIKECYKAR CRYSTAL GROWTH
09/13/1995 – 06/30/1998 FY97: $165,000 Total: $401,257
Prin. Invest.: A J MALKIN
Tech. Officer: GSFC/M L PUSEY, GSFC/W W WITYEROW
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 1996 UNIVERSITY OF CALIFORNIA – RIVERSIDE **2690**
UCR GAMMA RAY ASTRONOMY PROGRAM
02/27/1990 – 09/30/1997 FY97: $0 Total: $1,605,849
Prin. Invest.: A ZYCH, R S WHITE
Tech. Officer: HQ/L J KALUZIENSKI
CASE Category: 11 – ASTRONOMY

NAGW 4184 UNIVERSITY OF CALIFORNIA – RIVERSIDE **2691**
NON-ENZYMATIC LOIGOMERIZATION MONONUCLEOTIDES USING NON-STANDARD OLIGONUCLEOTIDE TEMPLATES
10/28/1994 – 06/30/1998 FY97: $0 Total: $180,000
Prin. Invest.: C SWITZER
Tech. Officer: HQ/M MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAS 8 39763 UNIVERSITY OF CALIFORNIA – RIVERSIDE **2692**
CRYSTAL GROWTH FLIGHT APPARATUS
10/30/1992 – 03/31/1998 FY97: $3,967,995 Total: $9,999,818
Prin. Invest.: A MCPHERSON
Tech. Officer: MSFC/R KING
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 8 80 UNIVERSITY OF CALIFORNIA – RIVERSIDE **2693**
ENHANCED DEWAR PROGRAM
05/26/1995 – 08/31/1997 FY97: $218,315 Total: $718,000
Prin. Invest.: A MCPHERSON
Tech. Officer: MSFC/R KING
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 1 1259 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2694**
A STUDY OF CLOUD RADIATIVE FORCING AND FEEDBACK – FDP
04/19/1991 – 04/07/1998 FY97: $216,576 Total: $1,105,112
Prin. Invest.: V RAMANATHAN
Tech. Officer: LARC/B A WIELICKI, LARC/J W YOUNGBLOOD
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 1 1445 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2695**
EXTENSION-BEND-TWIST-SHEAR COUPLING BEHAVIOR OF PRETWISTED ADVANCED COMPOSITEBEAMS
08/03/1992 – 07/01/1996 FY97: $0 Total: $100,000
Prin. Invest.: J B KOSMATKA
Tech. Officer: LARC/R C LAKE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1516 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2696**
THE INTERACTION OF A SHOCK WITH SHEARED TURBULENCE NLPN 93-415
06/29/1993 – 06/30/1997 FY97: $0 Total: $97,260
Prin. Invest.: S SARKAR
Tech. Officer: LARC/J DRUMMOND
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1535 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2697**
A HYBRID SIMULATION OF THE ACOUSTIC RADIATION FROM GRID TURBULENCE
09/20/1993 – 09/30/1997 FY97: $0 Total: $124,246
Prin. Invest.: S SARKAR
Tech. Officer: LARC/W E ZORUMSKI
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1965 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2698**
SUCCESS DATA PROCESSING AND ANALYSIS
09/05/1997 – 04/30/1998 FY97: $114,600 Total: $114,600
Prin. Invest.: F J VALERO
Tech. Officer: LARC/D S MCDOUGAL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 153 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2699**
PIONEER 10 & 11 DATA ANALYSIS
01/01/1982 – 09/30/1996 FY97: $0 Total: $1,771,842
Prin. Invest.: W FILLIUS
Tech. Officer: ARC/L E LASHER, ARC/J R PHILLIPS
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 2 714 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2700**
"ADAPTIVE RESPONSE OF SLOW AND FAST SKELETAL MUSCL E IN THE MONKEY TO SPACEFLIGHT: RHESUS PROJECT"
06/27/1991 – 06/30/1996 FY97: –$36,359 Total: $383,184
Prin. Invest.: S BODINE–FOWLER
Tech. Officer: ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 873 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2701**
A DISTRIBUTED COGNITION FIELD ANALYSIS OF THE USE OF TWO ATC AUTOMATION TOOLS
09/20/1993 – 09/30/1996 FY97: –$18,880 Total: $126,815
Prin. Invest.: E L HUTCHINS
Tech. Officer: ARC/K H OLSON, ARC/T J DAVIS
CASE Category: 62 – PSYCHOLOGY SOCIAL ASPECTS

NAG 3 1689 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2702**
HIGH PRESSURE COMBUSTION OF BINARY FUEL SPRAYS
12/28/1994 – 12/27/1997 FY97: $43,000 Total: $110,000
Prin. Invest.: F A WILLIAMS
Tech. Officer: LERC/H D ROSS
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1888 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2703**
MATERIAL INSTABILITIES IN PARTICULATE SYSTEMS: UC SD 95–647R
05/31/1996 – 06/30/2000 FY97: $40,000 Total: $120,000
Prin. Invest.: J D GODDARD
Tech. Officer: LERC/M E HILL
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 1492 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2704**
PHYSICS OF BOUNDARIES AND THEIR INTERACTION IN SPACE PLASMAS
01/08/1991 – 03/31/1996 FY97: $0 Total: $1,542,570
Prin. Invest.: N OMIDI, K B QUEST
Tech. Officer: GSFC/T J BIRMINGHAM
CASE Category: 13 – PHYSICS

NAG 5 1597 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2705**
THEORETICAL CALCULATIONS OF SOLAR FLARE NEUTRONS A ND GAMMA RAYS TO SUPPORT GRO OBSERVATIONS
05/09/1991 – 09/30/1996 FY97: $0 Total: $477,546
Prin. Invest.: R E LINGENFELTER
Tech. Officer: GSFC/J NORRIS, GSFC/D A KNIFFEN
CASE Category: 11 – ASTRONOMY

NAG 5 1630 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2706**
GURANTEED TIME OBSERVATIONS SUPPORT FOR FAINT OBJE CT SPECTROGRAPH (FOS) ON HST
06/24/1991 – 10/31/1998 FY97: $708,000 Total: $15,848,223
Prin. Invest.: R HARMS
Tech. Officer: GSFC/S SOBIESKI
CASE Category: 11 – ASTRONOMY

NAG 5 1858 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2707**
GUARANTEED TIME OBSERVATIONS OF THE HIGH RESOLUTIO N/SPECTROGRAPH OF THE HUBBLE SPACE TELESCOPE
01/03/1992 – 11/14/1998 FY97: $29,000 Total: $827,640
Prin. Invest.: E BEAVER
Tech. Officer: GSFC/A SMITH
CASE Category: 11 – ASTRONOMY

NAG 5 1910 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2708**
SPACE GEODETIC DETECTORS OF TECCTONIC SIGNALS
02/21/1992 – 04/30/1997 FY97: $0 Total: $291,968
Prin. Invest.: J B MINSTER
Tech. Officer: GSFC/B G BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 1914 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2709**
PROGRAM FOR CONTINUED DEVELOPMENT AND USE OF OCEAN ACOUSTIC/GPS GEODETIC TECHNIQUES
02/26/1992 – 11/14/1997 FY97: $70,000 Total: $740,000
Prin. Invest.: F N SPIESS
Tech. Officer: GSFC/B G BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 1917 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2710**
PERMANENT GPS GEODETIC ARRAY IN SOUTHERN CALIFORNI A
04/20/1992 – 10/31/1997 FY97: $118,061 Total: $616,061
Prin. Invest.: Y BOCK
Tech. Officer: GSFC/B G BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 1932 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2711**
A FLINN STATION AT PINON FLAT OBSERVATORY
03/04/1992 – 09/14/1997 FY97: $40,000 Total: $200,000
Prin. Invest.: D C AGNEW
Tech. Officer: GSFC/B G BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 2238 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2712**
OBSERVATIONAL AND MODELING STUDIES OF CLOUDS AND T HE HYDROLOGICAL CYCLE
04/09/1993 – 04/14/1997 FY97: $0 Total: $220,000
Prin. Invest.: R SOMERVILLE
Tech. Officer: GSFC/M J SUAREZ
CASE Category: 11 – ASTRONOMY

NAG 5 2288 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2713**
ISOTOPIC COMPOSITION OF METHANE PRODUCED AND CONSU MED IN BOREAL ECOSYSTEMS
06/22/1993 – 06/30/1997 FY97: $0 Total: $281,800
Prin. Invest.: M WAHLEN
Tech. Officer: GSFC/F G HALL, GSFC/P SELLERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2517 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2714**
THE NATURE OF X-RAY EMISSION FROM NARROW-LINE RADI O GAL-AXIES
02/21/1994 – 03/14/1998 FY97: $0 Total: $41,339
Prin. Invest.: R D COHEN
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2741 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2715**
HIGH ENERGY SPECTRA OF HIGH REDSHIFT QSOS
10/14/1994 – 04/14/1997 FY97: $0 Total: $34,536
Prin. Invest.: D BAND
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2811 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2716**
THEORETICAL STUDIES IN GAMMA-RAY ASTROPHYSICS
12/08/1994 – 10/31/1997 FY97: $69,000 Total: $207,000
Prin. Invest.: R E LINGENFELTER
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2965 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2717**
IMAGING OF IE0657-56: A DISTANT CLUSTER WITH A GRAVITATIONAL ARC
06/12/1995 – 12/14/1996 FY97: $0 Total: $4,678
Prin. Invest.: W TUCKER
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2967 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2718**
MAIN GEOMAGNETIC FIELD MODELS FROM ORSTED AND MAGSAT DATA VIA A RIGOROUS GENERAL INVERSE THEORY
06/13/1995 – 06/30/1998 FY97: $41,299 Total: $120,909
Prin. Invest.: G E BACKUS
Tech. Officer: GSFC/P T TAYLOR
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 2968 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2719**
CORE AND CRUSTAL GEOMAGNETIC FIELD MONITORING USING ORSTED AND MAGSAT DATA
06/13/1995 – 06/30/1998 FY97: $70,000 Total: $170,000
Prin. Invest.: C CONSTABLE
Tech. Officer: GSFC/P TAYLOR
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3062 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2720**
THE HISTORY OF BARYONS
09/22/1995 – 09/14/1998 FY97: $70,000 Total: $210,000
Prin. Invest.: G M FULLER
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3115 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2721**
THE SEARCH FOR ABSORPTION LINES IN GAMMA RAY BURST SPECTRA
10/18/1995 – 10/31/1997 FY97: $0 Total: $60,000
Prin. Invest.: D L BAND
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3234 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2722**
CHEMICAL ABUNDANCES AND EVOLUTION IN QUASARS AND A CTIVE GALACTIC NUCLEI
05/15/1996 – 05/14/1997 FY97: $0 Total: $60,000
Prin. Invest.: F W HAMANN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3237 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2723**
COSMOLOGICAL CENSUS OF BARYON DENSITY, IONIZATION AND ABUN-DANCES
05/21/1996 – 05/31/1997 FY97: $80,000 Total: $160,000
Prin. Invest.: D R TYTLER
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3272 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2724**
TIMING AND BROAD BAND PULSE PHASE RESOLVED SPECTRO SCOPY OF VELA X-1: CONFIRMATION OF CYCLOTRON
07/02/1996 – 12/31/1997 FY97: $16,203 Total: $29,703
Prin. Invest.: D GRUBER
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3273 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2725**
SURVEY OF SOFT GAMMA RAY REPEATERS
07/02/1996 – 12/31/1997 FY97: $0 Total: $46,980
Prin. Invest.: R ROTHSCHILD
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3274 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2726**
HARD X-RAY CONTINUA OF CYGNUS A AND IC5063: A TEST OF THE OBSCURATION/REFLECTION HYPOTHESIS FOR ..
07/02/1996 – 01/14/1998 FY97: $0 Total: $39,832
Prin. Invest.: P BLANCO
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3275 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2727**
XTE SEARCH FOR 44TI DECAY LINES FROM YOUNG SUPERNO VA REM-NANTS CAS A AND TYCHO
07/15/1996 – 01/14/1998 FY97: $0 Total: $23,100
Prin. Invest.: R LINGENFELTER
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3276 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2728**
DEEP AND MONITORING OBSERVATIONS OF BLACK-HOLE CAN DIDATES 1E 1740.7-2942 ANDGRS 1758-258
07/03/1996 – 01/14/1998 FY97: $0 Total: $8,330
Prin. Invest.: W HEINDL
Tech. Officer: GSFC/J SWANK
CASE Category: 12 – CHEMISTRY

NAG 5 3306 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2729**
SS 433'S X–RAY ECLIPSE
07/23/1996 – 01/31/1998 FY97: $0 Total: $20,621
Prin. Invest.: D BANDS
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3335 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2730**
THE ISO–IRAS FAINT GALAXY SURVEY
08/09/1996 – 08/14/1998 FY97: $0 Total: $27,349
Prin. Invest.: H E SMITH
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3381 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2731**
PCA/HEXTE OBSERVATIONS OF COMA AND A2319
08/30/1996 – 02/28/1998 FY97: $22,625 Total: $22,625
Prin. Invest.: Y RAPHAELI
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3398 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2732**
A STUDY OF FOUR DISTANT, EXTREMELY X–RAY LUMINOUS GALAXY CLUSTERS
09/09/1996 – 03/14/1998 FY97: $0 Total: $16,069
Prin. Invest.: W TUCKER
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3450 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2733**
ANALYSIS OF SKY FLUCTUATIONS FROM HEXTE
10/07/1996 – 10/14/1997 FY97: $37,300 Total: $37,300
Prin. Invest.: D GRUBER
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3511 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2734**
IMPROVED ESTIMATES OF CLEAR DRY LONGWAVE FLUX AND TROPICAL GREENHOUSE EFFECT
11/18/1996 – 09/14/1997 FY97: $31,523 Total: $31,523
Prin. Invest.: W COLLINS
Tech. Officer: GSFC/B KURRANYS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3528 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2735**
ASSESSMENT OF CLIMATIC AND ANTHROPOGENIC IMPACTS O CYCLE CONSTRAINED BY ATMOSPHERIC MEAUSREMENTS AND
11/18/1996 – 09/30/1997 FY97: $183,000 Total: $183,000
Prin. Invest.: D D KEELING
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3668 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2736**
ANALYSIS OF THE NEW ORION GAMMA–RAY DATA
12/31/1996 – 12/31/1997 FY97: $35,000 Total: $35,000
Prin. Invest.: R E LINGENFELTER
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3685 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2737**
GINGA GAMMA–RAY BURST LINE OCCURRENCE
01/08/1997 – 01/14/1998 FY97: $5,000 Total: $5,000
Prin. Invest.: D L BAND
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3742 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2738**
PULMONARY DEPOSITION OF AEROSOLS IN MICROGRAVITY
03/17/1997 – 02/14/1998 FY97: $234,936 Total: $234,936
Prin. Invest.: K PRISK
Tech. Officer: GSFC/F M SULZMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 3781 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2739**
THE SOLAR WIND INTERACTION WITH COMETS AND OTHER N
02/21/1997 – 11/30/1997 FY97: $77,500 Total: $77,500
Prin. Invest.: D MENDIS
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3810 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2740**
ACCRETION PHYSICS IN THE NEW ASYNCHRONOUS AM HER B
01/14/1997 – 01/14/1998 FY97: $4,642 Total: $4,642
Prin. Invest.: R ROTHSCHILD
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3944 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2741**
DEVELOPMENT OF A PIXON–BASED IMAGE RECONSTRUCTION USER COMMUNITY
03/04/1997 – 02/28/1998 FY97: $125,000 Total: $125,000
Prin. Invest.: D C PUETTER
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 4023 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2742**
ADVANCED GLOBAL ATMOSPHERIC GASES EXPERIMENT (AGAG
03/25/1997 – 01/31/1998 FY97: $479,482 Total: $479,482
Prin. Invest.: R F WEISS
Tech. Officer: GSFC/M J KURYLO
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4145 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2743**
ISOTOPIC, CHEMICAL AND MINERALOGICAL INVESTIGATION MATERIALS
03/25/1997 – 11/30/1997 FY97: $307,118 Total: $307,118
Prin. Invest.: R LUGMAIR
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 – CHEMISTRY

NAG 5 4284 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2744**
THE ORION PHENOMENON: PARTICLE FLUENCES IN THE SO
04/01/1997 – 02/28/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: D MARTI
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4410 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2745**
MONITORING OBSERVATIONS OF BLACK HOLE CANDIDATES 1 GRS 1758–258
05/21/1997 – 05/14/1998 FY97: $9,583 Total: $9,583
Prin. Invest.: W HEINDL
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4417 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2746**
STUDIES OF LONG PERIOD VARIABILITY IN NEUTRON STAR
05/01/1997 – 04/30/1998 FY97: $8,900 Total: $8,900
Prin. Invest.: W HEINDL
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4468 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2747**
INTERACTION OF THE SOLAR WIND WITH PLANETARY BOW S OF NON-LINEAR STRUCTURES
06/02/1997 – 05/31/1998 FY97: $70,000 Total: $70,000
Prin. Invest.: D I SHEVCHENKO
Tech. Officer: GSFC/J D BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 4543 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2748**
FRAGMENTARY SOLAR SYSTEM HISTORY
05/05/1997 – 12/31/1997 FY97: $130,224 Total: $130,224
Prin. Invest.: D MARTI
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4546 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2749**
NASA SPECIALIZED CENTER OF RESEARCH AND TRAINING I THE CHEMISTRY OF EARLY SELF-REPLICATING SYSTEMS
05/06/1997 – 03/31/1998 FY97: $942,000 Total: $942,000
Prin. Invest.: P L BADA
Tech. Officer: HQ/M MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 4563 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2750**
PREBIOTIC EVOLUTION OF NITROGEN COMPOUNDS
05/29/1997 – 12/31/1997 FY97: $94,000 Total: $94,000
Prin. Invest.: D ARRHENIUS
Tech. Officer: GSFC/M MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 4571 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2751**
ANTARCTIC SPACE ANALOG PROGRAM
06/23/1997 – 06/30/1998 FY97: $43,905 Total: $43,905
Prin. Invest.: L A PALINKAS
Tech. Officer: GSFC/M SHEPANEK
CASE Category: 11 – ASTRONOMY

NAG 5 4574 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2752**
METEORITIC SULFUR ISOTOPIC ANALYSIS
07/07/1997 – 02/28/1998 FY97: $31,000 Total: $31,000
Prin. Invest.: D H THIEMENS
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4579 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2753**
NOBLE GAS SYSTEMATICS IN PLANETARY ATMOSPHERES: S FRACTIONATION MECHANISMS USING ION IMPLANTATION
05/20/1997 – 09/30/1997 FY97: $40,248 Total: $40,248
Prin. Invest.: D MARTI
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4621 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2754**
SPECTRAL AND DYNAMICAL SIGNATURES OF BLACK HOLE HI
05/21/1997 – 05/31/1998 FY97: $7,052 Total: $7,052
Prin. Invest.: W HEINDL
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4622 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2755**
XTE OBSERVATION OF THE TYCHO SUPERNOVA REMNANT
05/21/1997 – 05/31/1998 FY97: $5,844 Total: $5,844
Prin. Invest.: P BLANCO
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4623 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2756**
PCA/HEXTE OBSERVATIONS OF NGC253 AND M82
05/21/1997 – 05/31/1998 FY97: $24,355 Total: $24,355
Prin. Invest.: Y REPHAELI
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4648 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2757**
MICROGRAVITY IN VITRO MODEL OF BONE: FLOW EFFECTS
06/11/1997 – 05/31/1998 FY97: $133,620 Total: $133,620
Prin. Invest.: J A FRANGOS
Tech. Officer: GSFC/M AVERNER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 4658 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2758**
THEORETICAL STUDIES OF MAGNETIC RECONNECTION
06/09/1997 – 05/14/1998 FY97: $77,900 Total: $77,900
Prin. Invest.: D B QUEST
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 4659 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2759**
ORGANIC COMPONENTS OF COMETARY DUST
05/30/1997 – 03/31/1998 FY97: $47,208 Total: $47,208
Prin. Invest.: D N FOMENKOVA
Tech. Officer: GSFC/M A MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 4666 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2760**
ISOTOPIC CHARACTERIZATION OF PREBIOTIC SYNTHESIS O
08/04/1997 – 02/28/1998 FY97: $85,368 Total: $85,368
Prin. Invest.: D KERRIDGE
Tech. Officer: GSFC/M MEYER
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4671 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2761**
SURFACE CHEMICAL COMPOSITION DETERMINATION FROM TH EXPERIMENT
06/06/1997 – 05/31/1998 FY97: $6,697 Total: $6,697
Prin. Invest.: D R ARNOLD
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4775 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2762**
AN INTEGRATED SYSTEM FOR WATER BUDGET CLOSURE OVER MASS: A TRMM VALIDATION EFFORT
07/15/1997 – 06/30/1998 FY97: $41,000 Total: $41,000
Prin. Invest.: J O ROADS
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4798 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2763**
ANALYSIS OF SKY FLUCTUATIONS FROM HEXTE II
06/23/1997 – 06/30/1998 FY97: $28,582 Total: $28,582
Prin. Invest.: D GRUBER
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4937 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2764**
AMINO ACIDS AND OTHER ORGANIC COMPONENTS IN ANTARC
06/23/1997 – 05/31/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: J L BADA
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4938 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2765**
MICRO–DETECTION SYSTEM FOR DETERMINATION OF THE BI OF AMINO ACIDS
06/23/1997 – 05/31/1998 FY97: $55,000 Total: $55,000
Prin. Invest.: P L BADA
Tech. Officer: GSFC/B CAMPBELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4948 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2766**
ISOTOPIC FRACTIONATION PROCESSES DURING PRE–SOLAR
06/23/1997 – 10/31/1997 FY97: $25,000 Total: $25,000
Prin. Invest.: D H THIEMENS
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 5111 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2767**
BALLOON–BORNE HIGH ENERGY X–RAY SPECTROMETER (HEXIS) BASED ON CZT TECHNOLOGY
04/07/1997 – 10/31/1997 FY97: $315,000 Total: $315,000
Prin. Invest.: J L MATTESON
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5176 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2768**
GLOBAL BATHYMETRIC PREDICTION FOR OCEAN MODELING A
07/17/1997 – 07/14/1998 FY97: $52,837 Total: $52,837
Prin. Invest.: D T SANDWELL
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 6073 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2769**
VARIABILITY OF PRECIPITATION OVER THE WESTERN UNIT
08/01/1997 – 10/31/1997 FY97: $39,762 Total: $39,762
Prin. Invest.: D CAYAN
Tech. Officer: GSFC/J FOSTER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6135 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2770**
VALIDATING THE USEFULNESS OF THE COMBINED GMS & GO FOR LONG–TERM GLOBAL CLIMATE CHANGE STUDIES
08/13/1997 – 06/30/1998 FY97: $250,000 Total: $250,000
Prin. Invest.: J J SIMPSON
Tech. Officer: GSFC/J C DODGE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 6149 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2771**
OCEAN TIDE LOADING COMPUTATION
08/21/1997 – 08/31/1998 FY97: $13,193 Total: $13,193
Prin. Invest.: D C AGNEW
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 6150 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2772**
SEAFLOOR GEODETIC MONITORING USING GPS AND ACOUSTI ATION TO NATURAL HAZARDS ON THE SE FLANK OF HAWAI
08/21/1997 – 08/31/1998 FY97: $174,919 Total: $174,919
Prin. Invest.: J B RAND, NONE
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 6179 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2773**
CONTINUOUS REMOTE MEASUREMENTS OF ATMOSPHERIC 02 C RELATION TO INTERANNUAL VARIATIONS IN BIOLOGICAL
08/19/1997 – 08/14/1998 FY97: $142,871 Total: $142,871
Prin. Invest.: R KEELING, NONE
Tech. Officer: GSFC/J A YODER
CASE Category: 33 – OCEANOGRAPHY

NAG 5 6212 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2774**
CORONAL VELOCITY DETERMINATION USING TWO–DIMENSION TECHNIQUES
08/18/1997 – 06/14/1998 FY97: $80,087 Total: $80,087
Prin. Invest.: D V JACKSON
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NAG 5 6327 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2775**
AN INVESTIGATION OF MID–OCEAN MESOSCALE VARIABILIT OF REAL OCEAN DATA AND A QUASI–GEOSTROPHIC MODEL
09/23/1997 – 09/30/1998 FY97: $38,206 Total: $38,206
Prin. Invest.: B CORNUELLE, NONE
Tech. Officer: GSFC/E LINSTROM
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 9 837 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2776**
ROLE OF FLUID SHEAR ON 3–D BONE TISSUE CULTURE
09/27/1995 – 08/15/1998 FY97: $79,000 Total: $231,000
Prin. Invest.: J A FRANGO
Tech. Officer: JSC/N PELLIS
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 449 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2777**
HIGH RESOLUTION GAMMA–RAY SPECTROSCOPY OF COSMIC SOURCES
03/15/1983 – 09/30/1997 FY97: $990,000 Total: $12,109,860
Prin. Invest.: J L MATTESON
Tech. Officer: HQ/L J KALUZIENSKI, HQ/A N BUNNER
CASE Category: 11 – ASTRONOMY

NAGW 1031 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2778**
RUST MINERALS AS TEMPLATES FOR ORGANIC MOLECULES
01/01/1987 – 12/31/1996 FY97: $0 Total: $829,566
Prin. Invest.: G ARRHENIUS
Tech. Officer: HQ/J D RUMMEL
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 1150 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2779**
USE OF GENERALIZED ADIABETIC THEORY TO STUDY MAGNETOSPHERIC
09/09/1987 – 09/30/1998 FY97: $0 Total: $426,000
Prin. Invest.: E C WHIPPLE
Tech. Officer: HQ/M M MELLOTT, HQ/T W PERRY
CASE Category: 13 – PHYSICS

NAGW 2034 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2780**
GLOBAL ATMOSPHERIC GASES EXPERIMENT (GAGE)
07/16/1990 – 09/30/1997 FY97: $0 Total: $2,996,869
Prin. Invest.: R F WEISS
Tech. Officer: HQ/M J KURYLO, HQ/M J PRATHER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 2251 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2781**
NAGW–2251/UNIV CA/ISOTOPIC FRACTIONATION PROCESSES DURING PRE–SOLAR GRAIN FORMATION
05/23/1991 – 10/31/1996 FY97: $0 Total: $225,560
Prin. Invest.: M H THIEMENS
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 2618 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2782**
ELECTRON DYNAMICS AND TRANASPORT PROPERTIES AT PLA SMA DIS-CONTINUITIES
07/18/1991 – 05/31/1997 FY97: $900 Total: $255,993
Prin. Invest.: D KRAUSS–VARBAN
Tech. Officer: HQ/M M MELLOTT, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 2881 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2783**
THE CHEMISTRY OF EARLY SELF–REPLICATING SYSTEMS
02/26/1992 – 12/31/1997 FY97: $0 Total: $4,693,000
Prin. Invest.: S L MILLER
Tech. Officer: HQ/R J WHITE
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 2964 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2784**
ANALYSIS OF LONG–TERM CLOUD COVER, RADIATIVE FLUXE S, AND SEA SURFACE TEMPERATURES IN THE EASTERN
03/20/1992 – 12/31/1995 FY97: $0 Total: $642,351
Prin. Invest.: J J SIMPSON
Tech. Officer: HQ/J C DODGE, HQ/R A SCHIFFER
CASE Category: 33 – OCEANOGRAPHY

NAGW 2987 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2785**
ASSESSMENT OF ANTHROPOGENIC AND CLIMATE IMPACTS ON THE GLOBAL CARBON CYCLE
03/20/1992 – 09/30/1996 FY97: $0 Total: $650,000
Prin. Invest.: C D KEELING
Tech. Officer: HQ/R E MURPHY, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3128 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2786**
USE OF DZCS DATA IN MODELING OCEAN SEASONAL THERMO LINE
07/24/1992 – 04/30/1996 FY97: $0 Total: $298,124
Prin. Invest.: P NIILER
Tech. Officer: HQ/R E MURPHY, HQ/J A KAYE
CASE Category: 33 – OCEANOGRAPHY

NAGW 3285 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2787**
NAGW–3285/SCRIPPS INST. OF OCEANOGRAPHY/ISOTOPIC, CHEMICAL, & MINERALOGICAL INVESTIGATIONS
11/27/1992 – 03/31/1998 FY97: $0 Total: $1,258,811
Prin. Invest.: G W LUGMAIR
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3428 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2788**
FRAGMENTARY SOLAR SYSTEM HISTORY
03/01/1993 – 12/31/1996 FY97: $0 Total: $462,003
Prin. Invest.: K MARTI
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3498 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2789**
NAGW–3498/UNIV CALIF SAN DIEGO/INVERSION SCHEMES P ARAMETER DATA
04/29/1993 – 12/31/1996 FY97: $0 Total: $330,535
Prin. Invest.: R FROUIN
Tech. Officer: HQ/M BALTUCK, HQ/R C HARRISS
CASE Category: 33 – OCEANOGRAPHY

NAGW 3551 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2790**
METEORITIC SULFUR ISOTOPIC ANALYSIS
04/23/1993 – 09/30/1997 FY97: $0 Total: $204,807
Prin. Invest.: M THIEMANS
Tech. Officer: HQ/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3795 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2791**
NAGW–3795/UNIV CALIF SAN DIEGO/PHYCOERYTHRIN CONTA INING PHY-TOPLANKTON TO REMOTELY SENSED SIGNALS
11/18/1993 – 03/31/1997 FY97: $0 Total: $155,000
Prin. Invest.: M VERNET, R ITURRIAGA
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 33 – OCEANOGRAPHY

NAGW 3896 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2792**
NAGW–3896/B SCRIPPS INST. OF OCEAN. "GLOBAL SURF. ULTRAVIOLET RADIATION CLIMATOL.." 36–MONTHS
03/16/1994 – 03/31/1998 FY97: $0 Total: $327,300
Prin. Invest.: D LUBIN
Tech. Officer: HQ/A KAYE, HQ/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3932 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2793**
LARGE & SMALL SCALES IN GEOMAGNETIC FIELD MODELING
04/08/1994 – 01/31/1996 FY97: $0 Total: $149,645
Prin. Invest.: C CONSTABLE
Tech. Officer: HQ/M BALTUCK
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3975 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2794**
EVOLUTION OF WAVE SPECTRA AND ION DISTRIBUTIONS IN THE MAGNETOSHEATH
06/10/1994 – 04/30/1997 FY97: $0 Total: $143,300
Prin. Invest.: M E MCKEAN
Tech. Officer: HQ/E C WHIPPLE, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4018 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2795**
THEORETICAL STUDIES OF MAGNETOSPHERIC TEARING
06/01/1994 – 01/31/1997 FY97: $0 Total: $126,000
Prin. Invest.: K B QUEST
Tech. Officer: HQ/E C WHIPPLE, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4238 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2796**
NOBEL GAS SYSTEMATICS IN PLANETARY ATMOSPHERES: SIMULATION OF FRACTIONATION MECHANISMS USING ION
01/11/1995 – 09/30/1997 FY97: $0 Total: $140,150
Prin. Invest.: K MARTI
Tech. Officer: HQ/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4264 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2797**
THE SOLAR WIND INTERACTION WITH COMETS AND OTHER N ON–MAGNETIZED BODIES
01/20/1995 – 05/31/1997 FY97: $0 Total: $121,427
Prin. Invest.: A MENDIS, K FLAMMER
Tech. Officer: HQ/J BERSTARALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4372 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2798**
PULMONARY DEPOSITION OF AEROSOLS IN MICROGRAVITY
03/31/1995 – 09/30/1997 FY97: $0 Total: $396,507
Prin. Invest.: G K PRISK
Tech. Officer: HQ/F SULZMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4422 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2799**
THE ORION PHENOMENON: PARTICLE FLUENCES IN THE EAR LY SOLAR NEBULA
06/02/1995 – 09/30/1997 FY97: $0 Total: $100,267
Prin. Invest.: K MARTI
Tech. Officer: HQ/P G ROGERS
CASE Category: 11 – ASTRONOMY

NAGW 4497 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2800**
COSMOLOGICAL CENSUS OF BARYON DENSITY IONIZATION AND ABUNDANCE
05/16/1995 – 01/31/1998 FY97: $0 Total: $80,000
Prin. Invest.: D TYTLER
Tech. Officer: HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 4684 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2801**
RADIATIVE EFFECTS OF AEROSOLS
08/16/1995 – 07/31/1997 FY97: $0 Total: $202,560
Prin. Invest.: F J VALERO
Tech. Officer: HQ/R A SCHIFFER
CASE Category: 11 – ASTRONOMY

NAGW 4726 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2802**
APPLICATION AND DEVELOPMENT OF ADVANCED IMAGE RECO NSTRUCTION ALGORITHMS FOR NASA ASTROPHYSICS DATA
08/28/1995 – 09/30/1997 FY97: $164,936 Total: $311,635
Prin. Invest.: R C PUETTER
Tech. Officer: HQ/D A HOLLAND, HQ/J H BREDEKAMP
CASE Category: 22 – COMPUTER SCIENCE

NAGW 4777 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2803**
IMPROVED ESTIMATES OF CLEAR SKY LONGWAVE FLUX AND APPLICATION TO THE TROPICALGREENHOUSE EFFECT
09/16/1995 – 09/14/1999 FY97: $0 Total: $30,478
Prin. Invest.: W COLLINS
Tech. Officer: HQ/R A SCHIFFER
CASE Category: 33 – OCEANOGRAPHY

NAGW 4835 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2804**
AN INVESTIGATION OF MID–OCEAN MESOSCALE VARIABILIT Y USING A COMBINATION OF REAL OCEAN DATA
11/13/1995 – 09/30/1996 FY97: $0 Total: $33,761
Prin. Invest.: B CORNUELLE*Prin. Invest.:* NONE
Tech. Officer: HQ/M BALTUCK
CASE Category: 33 – OCEANOGRAPHY

NAGW 5002 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2805**
ORGANIC COMPONENTS OF COMETARY DUST
03/22/1996 – 03/30/1997 FY97: $0 Total: $30,628
Prin. Invest.: M N FOMENKOVA
Tech. Officer: HQ/M MEYER, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 5157 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2806**
INTERACTION OF THE SOLAR WIND WITH PLANETARY BOW S HOCKS AND COMETS: STUDY OF NONLINEAR STRUCTURES
10/18/1996 – 05/31/1997 FY97: $70,000 Total: $70,000
Prin. Invest.: V I SHEVCHENKO
Tech. Officer: HQ/J D BOHLIN, HQ/G L WITHBROE
CASE Category: 11 – ASTRONOMY

NAS 5 30720 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2807**
HIGH ENERGY X–RAY TIMING EXPERIMENT FOR XTE PROJECT
11/01/1989 – 01/31/1999 FY97: $1,145,776 Total: $28,652,940
Prin. Invest.: R E ROTHSCHILD
Tech. Officer: GSFC/W D DAVIS
CASE Category: 11 – ASTRONOMY

NAS 5 33019 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2808**
GLRS SCIENCE TEAM MEMBER STUDY
10/05/1989 – 12/31/1997 FY97: $144,752 Total: $537,752
Prin. Invest.: J B MINSTER
Tech. Officer: GSFC/G SOFFEN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 5 97121 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2809**
PULSE SHAPE DISCRIMINATOR FOR INTEGRAL SPECTROMETER (LETTER CONTRACT)
01/24/1997 – 09/30/2001 FY97: $2,042,000 Total: $2,042,000
Prin. Invest.: J L MATTESON, R P LIN
Tech. Officer: GSFC/J P MURPHY
CASE Category: 11 – ASTRONOMY

NAS 5 97130 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2810**
BIO–OPTIONAL MEASUREMENT–MODELING OF CA CURRENT & POLAR OCEAN
08/18/1997 – 08/17/1998 FY97: $314,000 Total: $314,000
Prin. Invest.: B G MITCHELL
Tech. Officer: GSFC/C R MCCLAIN
CASE Category: 33 – OCEANOGRAPHY

NAS 5 97135 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2811**
SATEELLITE OCEAN COLOR VALIDATION USING MERCHANT SHIP
09/22/1997 – 09/21/1998 FY97: $167,120 Total: $167,120
Prin. Invest.: R FOUIN
Tech. Officer: GSFC/C MCCLAIN
CASE Category: 33 – OCEANOGRAPHY

NAS 8 36081 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2812**
R (SD)
06/01/1984 – 04/30/1998 FY97: $140,000 Total: $4,261,749
Prin. Invest.: J L MATTERSON
Tech. Officer: MSFC/G J FISHMAN
CASE Category: 11 – ASTRONOMY

NAS 9 18764 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2813**
STUDIES OF PULMONARY FUNCTION IN WEIGHTLESSNESS
10/02/1992 – 09/15/1997 FY97: $400,000 Total: $2,658,112
Prin. Invest.: J B WEST
Tech. Officer: JSC/V ELLERBE
CASE Category: 59 – LIFE SCIENCE, OTHER

NAS 9 19209 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2814**
SLEEP AND RESPIRATION IN MICROGRAVITY
10/06/1994 – 09/30/1995 FY97: –$639 Total: $45,734
Prin. Invest.: J B WEST
Tech. Officer: JSC/S SAWYER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAS 9 19434 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2815**
LIFE SCIENCES FLIGHT EXPERIMENT E198, SLEEP & RESP IRATION IN MICROGRAVITY
12/06/1995 – 02/28/1999 FY97: $300,000 Total: $850,000
Prin. Invest.: J B WEST
Tech. Officer: JSC/S G SAWYER
CASE Category: 56 – MEDICL

NCC 2 792 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2816**
A PILOT'S LANDING ASSISTANCE SYSTEM
04/22/1993 – 07/31/1996 FY97: $0 Total: $240,000
Prin. Invest.: R JAIN
Tech. Officer: ARC/R A COPPENBARGER, ARC/V H CHENG
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 852 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2817**
EXERCISE WITHIN LBNP TO PRODUCE ARTIFICIAL GRAVITY
04/21/1994 – 11/30/1997 FY97: $0 Total: $691,449
Prin. Invest.: A R HARGENS
Tech. Officer: ARC/C M WINGET
CASE Category: 56 – MEDICL

NCC 2 888 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2818**
NEUROMUSCULAR DEVELOPMENT & REGULATION OF MYOSIN E XPRES-SION
02/16/1995 – 06/30/1996 FY97: –$68,162 Total: $248,058
Prin. Invest.: S C BODINE–FOWLER, R L LIEBER
Tech. Officer: ARC/D A REISS–BUBENHEIM, ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 2 978 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2819**
NONINVASIVE MEASUREMENT OF INTERCRANIAL PRESSURE U SING ULTRASOUND
02/04/1997 – 03/31/1999 FY97: $332,152 Total: $332,152
Prin. Invest.: A R HARGENS
Tech. Officer: ARC/C M WINGET, ARC/G C JAHNS
CASE Category: 56 – MEDICL

NCC 2 996 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2820**
TRAINING REQUIREMENTS FOR AUTOFLIGHT USE IN A DATA LINK ATC ENVIRONMENT
06/11/1997 – 07/31/1997 FY97: $12,500 Total: $12,500
Prin. Invest.: E HUTCHINS
Tech. Officer: ARC/E A PALMER, ARC/S CASNER
CASE Category: 71 – ANTHROPOLOGY

NCC 2 5191 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2821**
SULFUR IN COMETARY DUST
10/23/1996 – 09/30/1997 FY97: $30,000 Total: $30,000
Prin. Invest.: D FOMENKOVA
Tech. Officer: ARC/D CHANG
CASE Category: 12 – CHEMISTRY

NCC 2 5232 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2822**
AN EVALUATION OF BIOENICITY IN ALH84001
08/12/1997 – 03/31/1998 FY97: $12,276 Total: $12,276
Prin. Invest.: G ARRHEMUS, S MORGAN
Tech. Officer: ARC/D BLAKE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 3 309 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2823**
PASSIVE VIBRATION REDUCTION OF ADVANCED COMPOSITE PRET-WISTED PLATES USING INTEGRAL DAMPING MATERAILS
05/28/1993 – 10/31/1995 FY97: $0 Total: $74,687
Prin. Invest.: J B KOSMATKA
Tech. Officer: LERC/O MEHMER, LERC/G STEFKO
CASE Category: 46 – MECHANICAL ENGR

NCC 3 407 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2824**
SCIENTIFIC SUPPORT FOR A PROPOSED SPACE SHUTTLE DR OPLET BURNING EXPERIMENT
02/28/1995 – 11/30/1999 FY97: $72,000 Total: $252,000
Prin. Invest.: F A WILLIAMS
Tech. Officer: LERC/H D ROSS
CASE Category: 49 – ENGINEERING, OTHER

NCC 3 493 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2825**
EXPERIMENTAL SPIN TESTING OF INTEGRALLY DAMPED COM POSITE PLATES
08/09/1996 – 11/11/1996 FY97: $0 Total: $24,967
Prin. Invest.: J B KOSMATKA
Tech. Officer: LERC/O MEHMED, LERC/G L STEFKO
CASE Category: 46 – MECHANICAL ENGR

NCC 3 506 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2826**
STRETCHED DIFFUSION FLAMES IN VON KARMAN SWIRLING FLOWS
09/25/1996 – 06/30/2000 FY97: $45,795 Total: $61,995
Prin. Invest.: F A WILLIAMS
Tech. Officer: LERC/K R SACKSTEDER, LERC/H D ROSS
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 3 569 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2827**
NEW APPROACHES FOR INTEGRALLY DAMPED COMPOSIT FAN BLADES
07/25/1997 – 06/23/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: J KOSMATKA
Tech. Officer: LERC/O MEHMED
CASE Category: 46 – MECHANICAL ENGR

NCC 5 221 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2828**
EXPLORING EDUCATIONAL LINKAGES
09/15/1997 – 07/31/1998 FY97: $95,000 Total: $95,000
Prin. Invest.: P K RIDE
Tech. Officer: GSFC/P MOUNTJOY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 5 230 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2829**
CORRELATED NOISE IN GPS TIME SERIES AND ITS EFFECT MODELS
08/22/1997 – 08/31/1998 FY97: $48,401 Total: $48,401
Prin. Invest.: H JOHNSON, NONE
Tech. Officer: GSFC/H FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 40005 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2830**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
10/02/1989 – 01/31/1998 FY97: $0 Total: $3,084,278
Prin. Invest.: J ARNOLD
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51274 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2831**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/14/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: A M SCHNEIDER
Tech. Officer: JPL/C HIX
CASE Category: 49 – ENGINEERING, OTHER

NGT 70317 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2832**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
06/30/1993 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: A SCHNEIDER
Tech. Officer: HQ/D K RUSSELL
CASE Category: 49 – ENGINEERING, OTHER

NGT 1 52133 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2833**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
06/14/1996 – 06/30/1998 FY97: $10,000 Total: $32,000
Prin. Invest.: J M SCHOPL, F BERMAN
Tech. Officer: LARC/R HATHAWAY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 2 52237 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2834**
DRAGSAT PROJECT
09/25/1997 – 08/31/1998 FY97: $15,000 Total: $15,000
Prin. Invest.: J R ARNOLD
Tech. Officer: ARC/D J RASKY
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 3 52333 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2835**
GRADUATE STUDENT RESEARCHES PROGRAM
06/11/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J KOSMATKA
Tech. Officer: LERC/F J MONTEGANI
CASE Category: 49 – ENGINEERING, OTHER

NGT 5 42 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2836**
FELLOWSHIP FOR GRADUATE STUDENTS WITH THE JOINT CE SYSTEM SCIENCE (JCOSS)
06/17/1997 – 05/31/1998 FY97: $150,000 Total: $150,000
Prin. Invest.: F VALERO
Tech. Officer: GSFC/A J BUSALACCHI
CASE Category: 33 – OCEANOGRAPHY

NGT 5 30036 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2837**
OCEAN COLOR MODELS OF PRIMARY PRODUCTION FOR PHAEO POLAR REGIONS
10/17/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: B MITCHELL
Tech. Officer: GSFC/G ASRAR
CASE Category: 33 – OCEANOGRAPHY

NGT 5 40007 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2838**
SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATIONA COLLEGE AND FELLOWSHIP PROGRAM.
01/24/1997 – 01/31/1998 FY97: $426,000 Total: $426,000
Prin. Invest.: J A ARNOLD
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40057 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2839**
"GLOBAL LEARNING AND OBSERVATIONS TO BENEFIT THE E _PROGRAM/ FALL WORKSHOP
02/12/1997 – 01/31/1998 FY97: $20,269 Total: $20,269
Prin. Invest.: J R ARNOLD
Tech. Officer: GSFC/L OSTENDORF
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50131 UNIVERSITY OF CALIFORNIA – SAN DIEGO **2840**
IMPROVING SCIENTIFIC APPLICATION PERFORMANCE BY DY
09/10/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: F BERMAN
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 2 981 UNIVERSITY OF CALIFORNIA – SAN FRANCISCO **2841**
MICROGRAVITY EFFECTS ON BONE CELL GENE EXPRESSION
05/24/1995 – 02/14/1998 FY97: $0 Total: $320,406
Prin. Invest.: M HUGHES–FULFORD
Tech. Officer: ARC/C M WINGET, ARC/G C JAHNS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 1086 UNIVERSITY OF CALIFORNIA – SAN FRANCISCO **2842**
OSTEOMARS: EFFECTS OF MICROGRAVITY ON OSOTEOBLAST GENE EXPRESSION IN VARIABLE GRAVITY
10/04/1996 – 06/30/1998 FY97: $325,011 Total: $325,011
Prin. Invest.: M H FULFORD
Tech. Officer: ARC/C M WINGET, ARC/P D SAVAGE
CASE Category: 51 – BIOLOGY(EXCLUDING ENVIR)

NAG 9 689 UNIVERSITY OF CALIFORNIA – SAN FRANCISCO **2843**
EFFECTS OF DISUSE AND RELOADING ON SUBCHONDRAL TRABEULAR BONE IN THE ADULT GREYHOUND DOG
05/12/1993 – 06/01/1996 FY97: $0 Total: $161,948
Prin. Invest.: N E LANE
Tech. Officer: JSC/L TAGGART
CASE Category: 56 – MEDICL

NAG 9 812 UNIVERSITY OF CALIFORNIA – SAN FRANCISCO **2844**
EXPANSION AND DIFFERENTIATION OF CELLS
09/19/1995 – 09/17/1998 FY97: $180,000 Total: $540,000
Prin. Invest.: B BHATNAGAR
Tech. Officer: JSC/N PELLIS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 4386 UNIVERSITY OF CALIFORNIA – SAN FRANCISCO **2845**
MOLECULAR ANALYSIS OF HZE DAMAGE IN TRANSGENIC MICE
04/14/1995 – 08/30/1997 FY97: $0 Total: $269,945
Prin. Invest.: M BANDA
Tech. Officer: HQ/V THORNE
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4625 UNIVERSITY OF CALIFORNIA – SAN FRANCISCO **2846**
ROLE OF INTEGRINS IN MECHANICAL LOADING OF OSTEOBL ASTS
07/11/1995 – 06/30/1997 FY97: $0 Total: $307,983
Prin. Invest.: R K GIBBUS
Tech. Officer: HQ/V SCHNEIDER
CASE Category: 56 – MEDICL

NAS 9 18769 UNIVERSITY OF CALIFORNIA – SAN FRANCISCO **2847**
SLS–3 FLIGHT EXPERIMENT
10/20/1992 – 09/15/1997 FY97: $234,736 Total: $971,550
Prin. Invest.: C CANN
Tech. Officer: JSC/V ELLERBE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAS 9 19411 UNIVERSITY OF CALIFORNIA – SAN FRANCISCO **2848**
CREW MEMBER & CREW GROUND INTRACTIONS DURING NASA/ MIR
09/22/1995 – 09/30/1998 FY97: $90,000 Total: $286,000
Prin. Invest.: D KANAS
Tech. Officer: JSC/J VILLARREAL
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 2 589 UNIVERSITY OF CALIFORNIA – SAN FRANCISCO **2849**
GRAVITY AND SKELETAL GROWTH
03/15/1989 – 12/31/1997 FY97: $100,024 Total: $1,822,246
Prin. Invest.: E M HOLTON
Tech. Officer: ARC/S B ARNAUD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 2 772 UNIVERSITY OF CALIFORNIA – SAN FRANCISCO **2850**
MOLECULAR SELF–ORGANIZATION & THE ORIGIN OF LIFE: FORMATION & FUNCTIONS OF PROTOCELLS
10/16/1992 – 09/30/1998 FY97: $102,847 Total: $660,308
Prin. Invest.: M A WILSON
Tech. Officer: ARC/S CHANG
CASE Category: 12 – CHEMISTRY

NCC 2 993 UNIVERSITY OF CALIFORNIA – SAN FRANCISCO **2851**
EVOLUTIONARY CELL COMPUTING
05/16/1997 – 10/31/1997 FY97: $46,915 Total: $46,915
Prin. Invest.: M A WILSON
Tech. Officer: ARC/S CHANG
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 2 5147 UNIVERSITY OF CALIFORNIA – SAN FRANCISCO **2852**
COMPUTER MODELING OF THE THERMAL CONDUCTIVITY OF C OMETARY ICE
07/19/1995 – 04/30/1998 FY97: $0 Total: $79,806
Prin. Invest.: D A WILSON
Tech. Officer: ARC/T E BUNCH, ARC/D F BLAKE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 2 1140 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2853**
MODELING & PREDICTION OF WILDFIRE HAZARD IN SOUTHE RN CALIFORNIA, INTEGRATION OF MODELS WITH.....
07/21/1997 – 06/30/1998 FY97: $75,000 Total: $75,000
Prin. Invest.: D A ROBERTS, S L USTIN, R CHURCH
Tech. Officer: ARC/G A SHELTON, ARC/J A BRASS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 2 1148 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2854**
CHARACTERIZATION OF LIGHT WEIGHT CERAMIC ABLATOR M ATERIALS
07/30/1997 – 12/31/1997 FY97: $42,121 Total: $42,121
Prin. Invest.: F MILSTEIN
Tech. Officer: ARC/H TRAN
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1847 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2855**
THE SUPERFLUID TRANSITINON OF HE4 UNDER UNSUAL CON DITION
05/02/1996 – 05/01/2000 FY97: $99,000 Total: $264,000
Prin. Invest.: P AHLERS
Tech. Officer: LERC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 3 1857 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2856**
NUMERICAL SIMULATION OF ELECTROCHEMICAL TRANSPORT PROCESS IN MICORGRAVITYENVIRONMENTS
05/06/1996 – 05/05/2000 FY97: $54,000 Total: $134,000
Prin. Invest.: S BAMERJEE
Tech. Officer: LERC/J C DUH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1896 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2857**
THE BREAK-UP AND COALESCENC OF GAS BUBBLES DRIVEN BY VELOCITY GRADIENTS OF A NON-UNIFORM FLOW
06/17/1996 – 06/16/1998 FY97: $70,000 Total: $140,000
Prin. Invest.: L LEAL
Tech. Officer: LERC/B S SINGH
CASE Category: 43 – CHEMICAL ENGR

NAG 4 135 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2858**
ACTIVE VIBRATION CONTROL OF FLEXIBLE STRUCTURES USING PIEZOELECTRIC ACTUATORS
06/30/1997 – 01/30/1998 FY97: $23,986 Total: $23,986
Prin. Invest.: J C BRUCH, JR., J M SLOSS
Tech. Officer: DFRC/K GUPTA
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 2485 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2859**
DEVELOPMENT OF A GENERAL-PURPOSE RADIATIVE TRANSFE R MODEL ON PARALLEL COMPUTING ARCHITECTURES
02/04/1994 – 02/14/1997 FY97: $0 Total: $90,000
Prin. Invest.: Z WAN
Tech. Officer: GSFC/J R FISCHER
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 3024 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2860**
TOPOGRAPHIC EVOLUTION OF VOLCANIC ISLAND
10/11/1995 – 10/14/1997 FY97: $127,675 Total: $248,508
Prin. Invest.: O A CHADWICK
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3334 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2861**
SEARCH FOR CO ABSORPTION IN THE CYGNUS A TORUS
08/09/1996 – 08/14/1998 FY97: $0 Total: $61,200
Prin. Invest.: R J ANTONUCCI
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3620 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2862**
"REMOTE SENSING INFORMATION SCIENCES RESEARCH GROU
02/07/1997 – 12/14/1997 FY97: $499,985 Total: $499,985
Prin. Invest.: D E ESTES
Tech. Officer: GSFC/A J TUYOHOV
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3646 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2863**
SOLAR SYSTEM PHYSICS
02/25/1997 – 09/30/1997 FY97: $85,000 Total: $85,000
Prin. Invest.: S J PEALE
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3814 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2864**
DEVELOPMENT AND CRYOGENIC TESTING OF MICROWAVE RAD ARCADE PROJECT.
01/14/1997 – 01/14/1998 FY97: $15,000 Total: $15,000
Prin. Invest.: P LUBIN
Tech. Officer: GSFC/R A SHAFER
CASE Category: 11 – ASTRONOMY

NAG 5 4078 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2865**
ADVANCED BALLOONING STUDIES AND TECHNOLOGY DEVELOP
04/25/1997 – 09/30/1997 FY97: $200,000 Total: $200,000
Prin. Invest.: P M LUBIN
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 4126 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2866**
SPATIAL AND TEMPORAL VARIABILITY IN SEA ICE COVERA ANTARCTIC PENINSULA ASPART OF THE PALMER LONG TE
03/06/1997 – 12/31/1997 FY97: $25,068 Total: $25,068
Prin. Invest.: R C SMITH
Tech. Officer: GSFC/R H THOMAS
CASE Category: 33 – OCEANOGRAPHY

NAG 5 4185 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2867**
DEVELOPMENT OF LARGE COOLED HEMT ARRAYS FOR BALLOO OF COSMIC BACKGROUND RADIATION ANISOTROPIES
03/24/1997 – 03/14/1998 FY97: $129,152 Total: $129,152
Prin. Invest.: M MEINHOLD
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 4455 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2868**
BALLOON-BORNE OBSERVATIONS OF THE ANISOTROPY OF TH BACKGROUND ON ANGULAR SCALES OF 0.2 TO 40 DEGREES
06/05/1997 – 12/31/1997 FY97: $39,518 Total: $39,518
Prin. Invest.: D E RUHL
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 4460 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2869**
NON-MARINE STROMATOLITES AND THE SEARCH FOR PAST L
05/14/1997 – 11/30/1997 FY97: $35,000 Total: $35,000
Prin. Invest.: D M AWRAMIK
Tech. Officer: GSFC/M MEYER
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4629 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2870**
PARAMETERIZATION OF CLOUD 3-D EFFECTS ON SURFACE S GET ESTIMATED FROM SATELLITE MEASUREMENTS
05/21/1997 – 05/31/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: C GAUTHIER
Tech. Officer: GSFC/R CAHALAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4814 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2871**
HYDROLOGY, HYDROCHEMICAL MODELING AND REMOTE SENSI SNOW-COVERED ALPINE DRAINAGE BASINS
06/19/1997 – 07/31/1998 FY97: $798,550 Total: $798,550
Prin. Invest.: J C DOZIER
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 – ENVIRONMENTALSCI, OTHER

NAG 5 4963 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2872**
PROGRAM IS PART OF A LONG TERM EFFORT ICESS IS DEV RGRADUATE STUDENTS, EARLY ON IN THEIR ACADEMIC LI
06/27/1997 – 06/30/1998 FY97: $75,000 Total: $75,000
Prin. Invest.: C GAUTIER
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6120 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2873**
THE EOS AMAZON PROJECT
08/13/1997 – 06/30/1998 FY97: $207,798 Total: $207,798
Prin. Invest.: T DUNNE
Tech. Officer: GSFC/T JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6226 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2874**
JERS AMAZON MULTI-SEASON MAPPING STUDY (JAMMS)
09/11/1997 – 05/31/1998 FY97: $87,954 Total: $87,954
Prin. Invest.: J MELACK
Tech. Officer: GSFC/D WICKLAND
CASE Category: 11 – ASTRONOMY

NAG 5 6259 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2875**
ACCURACY ASSESSMENT OF THE IGBP FAST-TRACK 1 KM LA METH-ODOLOGICAL DEVELOPMENT, EXECUTION, AND LESSON
08/19/1997 – 01/31/1999 FY97: $260,000 Total: $260,000
Prin. Invest.: J ESTES
Tech. Officer: GSFC/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6288 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2876**
DEVELOPMENT AND APPLICATION OF THE NEXT GENERATION FOR THE UNDERSTANDING OF MARINE PROCESSES ON REGI
09/10/1997 – 08/31/1998 FY97: $190,000 Total: $190,000
Prin. Invest.: D SIEGEL
Tech. Officer: GSFC/J YODER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 290 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2877**
SHIP & SATELLITE BIO-OPTICAL RESEARCH IN THE CALIFORNIA BIGHT
02/01/1982 – 09/30/1997 FY97: $180,000 Total: $3,706,840
Prin. Invest.: R C SMITH, K S BAKER
Tech. Officer: HQ/M R LEWIS, HQ/W S WILSON
CASE Category: 33 – OCEANOGRAPHY

NAGW 1062 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2878**
ADVANCED RADIOMETER DEVELOPMENT
07/01/1987 – 06/30/1997 FY97: $0 Total: $1,383,205
Prin. Invest.: P M LUBIN
Tech. Officer: HQ/F C GILLETT, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 1743 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2879**
REMOTE SENSING INFORMATION SCIENCES RESEARCH GROUP
05/16/1989 – 04/30/1997 FY97: $0 Total: $5,995,427
Prin. Invest.: J E ESTES, T R SMITH, J L STAR
Tech. Officer: HQ/A J TUYAHOV
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 1948 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2880**
NONMARINE STROMATOLITES AND THE SEARCH FOR PAST LI FE ON MARS
05/01/1990 – 09/30/1997 FY97: $0 Total: $264,352
Prin. Invest.: S M AWRAMIK
Tech. Officer: HQ/J D RUMMEL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2061 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2881**
SOLAR SYSTEM PHYSICS
04/10/1990 – 09/30/1997 FY97: $0 Total: $624,200
Prin. Invest.: S J PEALE
Tech. Officer: HQ/T A MAXWELL
CASE Category: 13 – PHYSICS

NAGW 2602 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2882**
HYDROLOGY, HYDROCHEMICAL MODELING, AND REMOTE SENS ING IN SEASONALLY SNOW-COVERED ALPHINE DRAINAGE
08/06/1991 – 09/30/1997 FY97: $0 Total: $3,999,221
Prin. Invest.: J DOZIER
Tech. Officer: HQ/G ASRAR, HQ/W S WILSON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 2724 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2883**
BIOGEOCHEMISTRY OF DISSOLVED GASES IN THE PANTANAL WETLAND OF BRAZIL
09/10/1991 – 12/31/1995 FY97: -$2,739 Total: $357,261
Prin. Invest.: J MELACK
Tech. Officer: HQ/A C JANETOS, HQ/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 2840 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2884**
NONLINEAR DROP DYNAMICS AND CHAOTIC PHENOMENA
01/17/1992 – 11/30/1996 FY97: $0 Total: $295,000
Prin. Invest.: L G LEAL
Tech. Officer: HQ/B M CARPENTER
CASE Category: 13 – PHYSICS

NAGW 3145 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2885**
SOLAR RADIATION PENETRATION, MODELING GLOBAL OCEAN CLIMATE AND SATELLITEOCEAN COLOR IMAGERY
08/11/1992 – 01/31/1998 FY97: $0 Total: $811,300
Prin. Invest.: D A SIEGEL
Tech. Officer: HQ/R E MURPHY, HQ/J A KAYE
CASE Category: 33 – OCEANOGRAPHY

NAGW 3180 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2886**
NAGW-3180/UNIV CA @ SANTA BARBARA/GLOBAL SURFACE SOLAR IRRADIANCE ESTIMATIONS FROM SATTELLITE DATA
09/23/1992 – 01/31/1996 FY97: $0 Total: $330,000
Prin. Invest.: C GAUTIER
Tech. Officer: HQ/J C DODGE
CASE Category: 31 – ATMOSPHERICSCIENCE

NAGW 3325 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2887**
THE SUPERFLUID TRANSITION OF 4HE IN THE PRESENCE O F A HEAT CURRENT
12/31/1992 – 12/31/1995 FY97: $0 Total: $390,000
Prin. Invest.: G AHLERS
Tech. Officer: HQ/M C LEE
CASE Category: 13 – PHYSICS

NAGW 3888 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2888**
UNIV CALIF SANTA BARBARA; IMPLEMENTING & APPLYING A MODELING & DATABASE SYSTEM IN SUPPORT OF EOS
03/03/1994 – 09/30/1997 FY97: $0 Total: $992,215
Prin. Invest.: T R SMITH
Tech. Officer: HQ/G H MUCKLOW, HQ/H BREDECAMP
CASE Category: 22 – COMPUTER SCIENCE

NAGW 3951 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2889**
FULLY AUTOMATED REGISTRATION AND COMPOSITE GENERAT IONS
04/25/1994 – 12/31/1997 FY97: $0 Total: $418,293
Prin. Invest.:
Tech. Officer: HQ/G H MUCKLOW, HQ/J H BREDECAMP
CASE Category: 22 – COMPUTER SCIENCE

NAGW 4352 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2890**
FLOODPLAIN AND RIVER DYNAMICS IN THREE LARGE SOUTH AMERICAN RIVERS
03/18/1995 – 01/31/1998 FY97: $0 Total: $141,815
Prin. Invest.: J M MELACK, C J WILLMOTT, C J VOROSMARTY
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4921 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2891**
SPATIAL AND TEMPORAL VARIABILITY IN SEA ICE COVERA GE WEST OF THE ANTARCTIC PENINSULA AS PART
02/08/1996 – 06/30/1997 FY97: $0 Total: $22,214
Prin. Invest.: R C SMITH
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 33 – OCEANOGRAPHY

NAGW 5115 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2892**
JERS AMAZON MULTI–SEASON MAPPING STUDY
07/02/1996 – 05/19/1998 FY97: $0 Total: $121,092
Prin. Invest.: J M MELACK, A FREEMAN, A ROSENQUIST
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 5185 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2893**
HYDROLOGY, HYDROCHEMICAL MODELING
09/03/1996 – 07/31/1998 FY97: $0 Total: $720,000
Prin. Invest.: J DOZIER
Tech. Officer: HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 5222 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2894**
OCEAN MEASUREMENTS FROM MOORINGS IN SUPPORT OF SEA WIFS
10/04/1996 – 03/31/1998 FY97: $150,000 Total: $150,000
Prin. Invest.: T D DICKEY
Tech. Officer: HQ/N MAYNARD, HQ/R C HARRISS
CASE Category: 33 – OCEANOGRAPHY

NAGW 5233 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2895**
THE REGIONAL AMAZON MODEL
09/30/1996 – 09/30/1997 FY97: $0 Total: $181,537
Prin. Invest.: T DUNNE
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 5241 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2896**
USING LANDSAT DATA TO DEVELOP AN IMAGE BASED LOGISTIC REGRESSION MODEL FOR PREDICTING DEFORESTATION
11/25/1996 – 06/30/1997 FY97: $205,551 Total: $205,551
Prin. Invest.: R C FROHN
Tech. Officer: HQ/A ASRAR, HQ/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 5 31370 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2897**
EOS INVESTIGATION
12/23/1991 – 12/14/2001 FY97: $489,000 Total: $2,209,402
Prin. Invest.: Z WAN
Tech. Officer: GSFC/H OSEROFF
CASE Category: 33 – OCEANOGRAPHY

NAS 5 31374 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2898**
EOS INVESTIGATION – ATMOSPHERIC INFRARED SOUNDER (AIRS) TEAM MEMBER INVESTIGATION
03/04/1992 – 12/14/2001 FY97: $180,000 Total: $970,000
Prin. Invest.: C GAUTIER
Tech. Officer: GSFC/E KRIENS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 5 31710 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2899**
EOS INVESTIGATION/HIRIS TEAM MEMBER
09/17/1992 – 09/30/1996 FY97: $0 Total: $138,850
Prin. Invest.: D DOZLER
Tech. Officer: GSFC/T BRAKKE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAS 5 31713 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2900**
EOS INVESTIGATION/HIRIS TEAM MEMBER
02/25/1992 – 06/30/1996 FY97: $0 Total: $337,849
Prin. Invest.: J M MELACK
Tech. Officer: GSFC/T BRAKE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 97119 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2901**
MANAGE DEVELOPMENT OF X–RAY MULTI–MIRROR MISSION DATA PROCESSING UNIT
01/22/1997 – 09/01/1998 FY97: $307,000 Total: $307,000
Prin. Invest.: F A COROGVA
Tech. Officer: GSFC/R E DONNELL
CASE Category: 11 – ASTRONOMY

NAS 5 97125 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2902**
BERMUDA BIOOPTICS PROGRAM FOR SIMBIOS
07/11/1997 – 07/10/1998 FY97: $307,126 Total: $307,126
Prin. Invest.: D A SIEGEL
Tech. Officer: GSFC/C MCCLAIN
CASE Category: 33 – OCEANOGRAPHY

NAS 5 97127 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2903**
BERMUDA TESTBED MOORING IN SUPPORT OF SIMBIDS
07/15/1997 – 07/14/1998 FY97: $167,640 Total: $167,640
Prin. Invest.: T D DICKEY
Tech. Officer: GSFC/C MCCLAIN
CASE Category: 33 – OCEANOGRAPHY

NAS 5 97146 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2904**
EOS – IDS ATMOSPHERE – BIOSPHERE
05/21/1997 – 05/20/2000 FY97: $90,000 Total: $90,000
Prin. Invest.: A S DENNING
Tech. Officer: GSFC/G COLLATZ
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 63 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2905**
INVESTIGATE EFFECT OF SURFACE IMPURITIES ADSORPTION KINETICS OF HYDROGEN CHEMISORBED IRON
04/01/1980 – 09/30/1997 FY97: $0 Total: $1,453,317
Prin. Invest.: M R SHANABARGER
Tech. Officer: ARC/T L PANONTI
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 551 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2906**
SPATIAL CROSS–CORRELATION IN BACK SCATTER
04/08/1997 – 03/31/1998 FY97: $49,200 Total: $49,200
Prin. Invest.: D S CANNELL
Tech. Officer: LERC/T K GLASGOW, LERC/W MEYER
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 5 49 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2907**
AUGMENTATION OF THE BERMUDA BIO–OPTICS PROGRAM IN SUPPORT OF THE SEAWIFS SATELLITE MISSION
07/22/1992 – 03/31/1996 FY97: $0 Total: $235,000
Prin. Invest.: D A SIEGEL
Tech. Officer: GSFC/C R MCCLAIN, GSFC/S B HOOKER
CASE Category: 33 – OCEANOGRAPHY

NGT 30204 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2908**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/26/1993 – 11/30/1996 FY97: $0 Total: $66,000
Prin. Invest.: H COUCLELIS
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30267 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2909**
GLOBAL CHANGE FELLOWSHIP PROGRAM
10/20/1994 – 08/31/1998 FY97: $0 Total: $66,000
Prin. Invest.: J M MELACK
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30339 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2910**
GLOBAL CHANGE FELLOWSHIP PRORGRAM
09/22/1995 – 08/31/1996 FY97: $0 Total: $44,000
Prin. Invest.: S GAINES, R SCHMIDT
Tech. Officer: HQ/G ASRAR
CASE Category: 33 – OCEANOGRAPHY

NGT 30357 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2911**
GLOBAL CHANGE FELLOWSHIP PROGRAM
09/04/1996 – 08/31/1997 FY97: $0 Total: $22,000
Prin. Invest.: T DUNNE
Tech. Officer: HQ/G ASRAR
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 51264 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2912**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/14/1994 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: G AHLERS
Tech. Officer: HQ/G LESANE
CASE Category: 13 – PHYSICS

NGT 51342 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2913**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/08/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: L G LEAL
Tech. Officer: HQ/G A LESANE
CASE Category: 43 – CHEMICAL ENGR

NGT 51381 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2914**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/15/1995 – 06/30/1998 FY97: $0 Total: $44,000
Prin. Invest.: P LUBIN
Tech. Officer: HQ/D A HOLLAND
CASE Category: 13 – PHYSICS

NGT 3 52317 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2915**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/05/1996 – 06/30/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: S BANERJEE
Tech. Officer: LERC/D MONTEGANI
CASE Category: 43 – CHEMICAL ENGR

NGT 5 30050 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2916**
SEDIMENT EVACUATION FROM THE NORTH CENTRAL ANDES A GLOBAL CHANGE ON MOUNTAIN RANGE EROSION
09/16/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: T DUNNE
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30063 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2917**
BIO–OPTICAL ANALYSIS OF PRIMARY PRODUCTIVITY AND G CHANGE IN ANTARCTIC COASTAL WATERS
09/10/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: R SMITH
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30070 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2918**
THE EFFECTS OF REMOTELY SENSED DATA ON MODELED LAN NTERACTIONS: CONSEQUENCES FOR GLOBAL CARBON BALA
09/10/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: S DENNING
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTIINTERDISCPL, OTHER

NGT 5 30104 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2919**
INVESTIGATIONS OF COASTAL MARINE COMMUNITIES AS A MEANS TO UNDERSTANDING CONTEMPORARY EFFECTS OF GLO
09/26/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: S SCHMIDT
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTIINTERDISCPL, OTHER

NGT 5 50010 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2920**
ESTIMATION OF HUMAN POPULATION PARAMETERS WITH HIGERY AND GIS
12/23/1996 – 08/31/1997 FY97: $44,000 Total: $44,000
Prin. Invest.: D ROBERTS
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50127 UNIVERSITY OF CALIFORNIA – SANTA BARBARA **2921**
MAPPING THE COSMIC MICROWAVE BACKGROUND RADIATION
09/09/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: P LUBIN
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 2 813 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2922**
ARE THER HIDDEN SUPERNOVAE?
12/15/1992 – 09/30/1996 FY97: $0 Total: $384,782
Prin. Invest.: D M RANK, J D BREGMAN
Tech. Officer: ARC/C D LAUGHLIN, ARC/C M GILLESPIE
CASE Category: 11 – ASTRONOMY

NAG 2 991 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2923**
TOOLS FOR ANALYSIS & VISUALIZATION OF LARGE TIME–V ARYING CFD DATA SETS
07/25/1995 – 07/31/1998 FY97: $100,000 Total: $300,000
Prin. Invest.: J WILHELMS, A . VAN GELDER
Tech. Officer: ARC/A VAZIRI, ARC/M G YAMASAKI
CASE Category: 22 – COMPUTER SCIENCE

NAG 2 1118 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2924**
DE NOVO DESIGN NANOTECHNOLOGY COMPONENTS
02/21/1997 – 12/31/1997 FY97: $99,876 Total: $99,876
Prin. Invest.: W T WIPKE
Tech. Officer: ARC/C LEVIT, ARC/D A BAILEY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 2843 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2925**
RADIATION TRANSPORT AND MULTIDIMENSIONAL HYDRODYNA MICS IN SUPERNOVAE
12/14/1994 – 03/31/1998 FY97: $0 Total: $216,000
Prin. Invest.: S E WOOSLEY
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2984 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2926**
MOUNTAIN SCALE EROSION AND THE POTENTIAL FOR EROSIONALLY DRIVEN UPLIFT
07/07/1995 – 07/14/1997 FY97: $0 Total: $66,011
Prin. Invest.: R S ANDERSON
Tech. Officer: GSFC/H V FREY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 3005 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2927**
ZCAPE: A COUPLED TECTONIC–GEOMORPHIC LANDSCAPE EVOLUTION MODEL
07/14/1995 – 07/31/1997 FY97: $45,000 Total: $127,000
Prin. Invest.: R ANDERSON
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3059 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2928**
DYNAMICAL PROCESSES AROUND MASSIVE BLACK HOLES IN GALACTIC MUCLEI
10/02/1995 – 09/14/1998 FY97: $40,000 Total: $120,000
Prin. Invest.: D N LIN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3060 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2929**
INTERSTELLAR GAS AND DUST IN ELLIPTICAL GALAXIES
09/15/1995 – 09/14/1998 FY97: $59,000 Total: $177,000
Prin. Invest.: W G MATTHEWS
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3061 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2930**
TESTING INFLATION AND DARK MATTER WITH MATTER WITH NEW DATA, MODELS AND METHODS
09/06/1995 – 09/14/1998 FY97: $110,000 Total: $330,000
Prin. Invest.: J R PRIMACK
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3232 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2931**
THE PROPERTIES OF INTERSTELLAR DUST GRAINS IN CIRRUS CLOUDS
05/08/1996 – 04/30/1997 FY97: $82,495 Total: $158,695
Prin. Invest.: P GUHATHAKURTA
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3434 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2932**
PRODUCTION DISTRIBUTION AND EVOLUTION OF RADIOACTI VE NUCLEI.
10/01/1996 – 09/30/1997 FY97: $54,974 Total: $54,974
Prin. Invest.: S WOOSLEY, F X TIMMES
Tech. Officer: GSFC/J NORRIS, GSFC/N GEHRELS
CASE Category: 11 – ASTRONOMY

NAG 5 3501 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2933**
A STUDY OF DUST IN AND AROUND GALAXIES
11/25/1996 – 11/14/1997 FY97: $89,000 Total: $89,000
Prin. Invest.: D F ZARITSKY
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3507 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2934**
ISO DEEP SURVEY
10/31/1996 – 11/14/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: D C KOO
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3820 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2935**
ORIGIN OF QUASAR ABSORPTION LINES IN A COSMOLOGICA
01/14/1997 – 01/14/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: L E HERNQUIST
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4277 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2936**
FORMATION OF GIANT PLANETS
04/01/1997 – 12/31/1997 FY97: $45,000 Total: $45,000
Prin. Invest.: D LIN
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4445 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2937**
PHOTON-WEIGHTED MIDPOINT EXPOSURE METER FOR KECK/H RESEARCH
04/25/1997 – 04/30/1998 FY97: $108,984 Total: $108,984
Prin. Invest.: D S VOGT
Tech. Officer: GSFC/S HOWARD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4494 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2938**
FORMATION AND EARLY EVOLUTION OF SOLAR AND EXTRA-S
04/30/1997 – 03/31/1998 FY97: $37,576 Total: $37,576
Prin. Invest.: D H BODENHEIMER
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4610 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2939**
MAJOR UNRESOLVED PROBLEMS IN FU ORIONIS SYSTEMS
05/20/1997 – 05/31/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: D H BODENHEIMER
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4665 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2940**
STRUCTURE AND FUNCTION OF ENCAPSULATED REPLICATING
06/05/1997 – 12/31/1997 FY97: $109,479 Total: $109,479
Prin. Invest.: D DEAMER
Tech. Officer: GSFC/M MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 4866 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2941**
CLUSTERS OF GALAXIES IN A NEW LIGHT: THE FIRST HIGH RESOLUTION
06/27/1997 – 01/31/1998 FY97: $9,391 Total: $9,391
Prin. Invest.: A ZABLUDOFF
Tech. Officer: GSFC/R PETRE
CASE Category: 12 – CHEMISTRY

NAG 9 877 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2942**
SOC FOR ADVANCE OF CHICANOS/NATIVE AMER IN SCIENCE
09/18/1996 – 10/31/1996 FY97: $0 Total: $25,000
Prin. Invest.: M W JORDAN
Tech. Officer: JSC/L ARMENDARIZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 3988 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2943**
DYNAMICAL EVOLUTION AND THE GROWTH OF PLANETISMALS
05/04/1994 – 05/31/1996 FY97: $0 Total: $62,400
Prin. Invest.: D LIN
Tech. Officer: HQ/P ROGERS
CASE Category: 11 – ASTRONOMY

NAGW 4037 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2944**
ISO DEEP SURVEY KEY PROJECT
06/03/1994 – 04/30/1997 FY97: $0 Total: $35,000
Prin. Invest.: D KOO
Tech. Officer: HQ/CAROFF
CASE Category: 11 – ASTRONOMY

NAGW 4213 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2945**
NUMERICAL STUDY OF THE BERKNER SHELF POLYNYA
12/20/1994 – 09/30/1996 FY97: $0 Total: $80,000
Prin. Invest.: D VALLIS
Tech. Officer: HQ/J S THEON
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAGW 4235 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2946**
ASSEMBLY AND FUNCTION OF PRIMITIVE
01/13/1995 – 12/31/1996 FY97: $0 Total: $275,080
Prin. Invest.: D W DEAMER
Tech. Officer: HQ/M M MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 4456 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2947**
EFFECTS OF EU ORIONIS OUTBURSTS ON PROPLANETARY DISKS
05/02/1995 – 02/28/1997 FY97: $0 Total: $77,773
Prin. Invest.: P BODENHEIMER
Tech. Officer: HQ/P G ROGERS
CASE Category: 11 – ASTRONOMY

NAGW 4830 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2948**
COMPARISON OF LICK NORTHERN PROPER MOTION PROGRAM AND HIPPARCOS REFERENCE FRAMES
10/10/1995 – 09/30/1996 FY97: $0 Total: $34,135
Prin. Invest.: D KLEMOLA
Tech. Officer: HQ/R A STACHNIK
CASE Category: 11 – ASTRONOMY

NAGW 4967 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2949**
FORMATION OF GIANT PLANETS
02/24/1996 – 12/31/1998 FY97: $0 Total: $45,000
Prin. Invest.: D LIN
Tech. Officer: HQ/P ROGERS
CASE Category: 11 – ASTRONOMY

NAGW 5033 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2950**
RADIATIVE EFFECTS OF CONSTRAINTS AND CIRRUS CLOUDS DURING SUCCESS: A PROPOSAL IN SUPPORT OF AVIATIO
04/24/1996 – 01/31/1997 FY97: $0 Total: $204,187
Prin. Invest.: F J VALERO
Tech. Officer: HQ/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 534 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2951**
TOWARDS A SELF REPLICATING CHEMICAL SYSTEM BASED OCYTIDYLIC AND GUANYLIC ACIDS
01/15/1988 – 01/14/1998 FY97: $99,840 Total: $805,337
Prin. Invest.: A KANAVARIOTI, C F BERNASCONI
Tech. Officer: ARC/S CHANG
CASE Category: 12 – CHEMISTRY

NCC 2 649 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2952**
THEORETICAL AND OBSERVATIONAL STUDIES OF STAR AND PLANET FORMATION AND PRECURSOR SCIENCE FOR SIRTF
10/16/1989 – 12/31/1997 FY97: $336,444 Total: $2,151,158
Prin. Invest.: P H BODENHEIMER
Tech. Officer: ARC/D J HOLLENBACH, ARC/M W WERNER
CASE Category: 11 – ASTRONOMY

NCC 2 717 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2953**
VOLUME VISUALIZATION FOR COMPUTATIONAL FLUID DYNA MICS
06/05/1991 – 03/14/1996 FY97: –$603 Total: $259,397
Prin. Invest.: J WILHELMS
Tech. Officer: ARC/A VAZIRI, ARC/J HULQUIST
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 928 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2954**
LIVING IN SPACE OR LOW GRAVITY ENVIRONMENTS
09/12/1995 – 08/31/1998 FY97: $5,000 Total: $45,016
Prin. Invest.: B BRIDGEMAN
Tech. Officer: ARC/R B WELCH
CASE Category: 69 – PSYCHOLOGY, OTHER

NCC 2 959 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2955**
A STUDY OF MID–INFRARED SPECTRAL IMAGES FOR SOFIA
07/10/1996 – 07/31/1997 FY97: $0 Total: $65,965
Prin. Invest.: D M RANK
Tech. Officer: ARC/C D LAUGHLIN, ARC/D G KOCH
CASE Category: 11 – ASTRONOMY

NCC 2 1003 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2956**
DUAL ADAPTATION & ADAPTIVE GENERALIZATION TO REARR ANGED VISUAL ENVIRONMENTS& ADAPTIVE PERFORMANCE.
08/07/1997 – 11/30/1997 FY97: $5,000 Total: $5,000
Prin. Invest.: B BRIDGEMAN
Tech. Officer: ARC/R B WELCH
CASE Category: 69 – PSYCHOLOGY, OTHER

NCC 2 5143 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2957**
AMPLIFICATION OF ARCHAEBACTERIAL PROTON–ATPASE GEN ES
06/30/1995 – 07/01/1998 FY97: $0 Total: $40,000
Prin. Invest.: R A BOGOMOLNI
Tech. Officer: ARC/L I HOCHSTEIN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 2 5176 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2958**
UNCERTAINTY IN FLOW VISUALIZATION & MULTIPLE LEVEL S OF COL-LABORATIVE VISUALIZATION
04/15/1996 – 06/30/1997 FY97: $0 Total: $6,707
Prin. Invest.: A PANG
Tech. Officer: ARC/M G YAMASAKI
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 5207 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2959**
VISUAL METHODS FOR MAODEL AND GRID VALIDATION
03/20/1997 – 12/31/1997 FY97: $37,457 Total: $37,457
Prin. Invest.: A PANG
Tech. Officer: ARC/G D YAMASKI
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 5241 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2960**
A NASA–AMES/UCSC INVESTIGATION OF CARBON ISOTOPE A BUN-DANCES IN ALH84001
09/30/1997 – 08/31/1998 FY97: $16,785 Total: $16,785
Prin. Invest.: G RAU
Tech. Officer: ARC/K J DES MARAIS
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 5 195 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2961**
"DEVELOPMENT OF SILICON–STRIP TRACKER READOUT ELEC
05/30/1997 – 05/31/1998 FY97: $191,716 Total: $191,716
Prin. Invest.: D P JOHNSON
Tech. Officer: GSFC/N GEHRELS
CASE Category: 11 – ASTRONOMY

NGT 51220 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2962**
GRAD STUDENT RESEARCHERS PROGRAM
04/25/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: R S ANDERSON
Tech. Officer: HQ/A NOVOTNY
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 90178 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2963**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/27/1993 – 08/14/1996 FY97: –$300 Total: $36,000
Prin. Invest.: D KLIGER
Tech. Officer: HQ/M A JONES
CASE Category: 13 – PHYSICS

NGT 2 52217 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2964**
BIRTH OF THE SUN: MAGNETIC FIELDS IN PROTOSTELLAR ACCRETION DISKS
07/31/1996 – 09/30/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: P BODENHEIMER, N J TURNER
Tech. Officer: ARC/R M CASSEN
CASE Category: 11 – ASTRONOMY

NGT 2 52230 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2965**
EFFECTS OF WATER IMMERSION (WEIGHTLESSNESS) ON THE REGULA-TION OF RENEAL FUNCTION IN SEALS EXPOSED..
08/19/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: C L ORTIZ, NONE
Tech. Officer: ARC/C E WADE, ARC/B J CORBIN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 5 43 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2966**
MULTIWAVELENGTH STUDY OF THE EVOLUTION OF GALAXIES NMENT
06/23/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: P GUHATHAKURTA
Tech. Officer: GSFC/M S BURRELL
CASE Category: 11 – ASTRONOMY

NGT 5 30074 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2967**
THE EVOLUTION OF STREAM CHANNELS IN A PROGRESSIVE N: THE FINISTERRE RANGE, PAUA NEW GUINEA
09/09/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D SILVER
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL,OTHER

NGT 5 90022 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2968**
USAR
01/02/1997 – 08/14/1997 FY97: $10,000 Total: $10,000
Prin. Invest.: D E KLIGER
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90077 UNIVERSITY OF CALIFORNIA – SANTA CRUZ **2969**
GRPS: PHYSICAL MECHANISMS FOR LONG–TERM CLIMATE VA
09/08/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: G VALLIS
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 1120 UNIVERSITY OF SAN DIEGO **2970**
JOVE
12/21/1994 – 05/31/1998 FY97: $0 Total: $70,999
Prin. Invest.: A STURZ, S C GRAY
Tech. Officer: MSFC/F SIX
CASE Category: 33 – OCEANOGRAPHY

NAGW 4154 UNIVERSITY OF SAN FRANCISCO **2971**
HIGH LET PASSIV SPACE
09/21/1994 – 09/30/1997 FY97: $0 Total: $200,000
Prin. Invest.: E U BENTON
Tech. Officer: HQ/F SULZMAN
CASE Category: 56 – MEDICL

NCC 2 893 UNIVERSITY OF SAN FRANCISCO **2972**
ENVIRONMENTAL RADIATION MEASUREMENTS ON THE MIR SP ACE STA-TION
03/27/1995 – 01/31/1998 FY97: $51,590 Total: $451,590
Prin. Invest.: E V BENTON, A L FRANK, R P KEEGAN
Tech. Officer: ARC/C M WINGET, ARC/G C JAHNS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 146 UNIVERSITY OF SOUTHERN CALIFORNIA **2973**
PIONEER 10/11 DATA ANALYSIS OF THE ULTRAVIOLETPHOTOMETRY EXPERIMENT
10/01/1981 – 09/30/1997 FY97: $50,000 Total: $2,822,342
Prin. Invest.: D JUDGE
Tech. Officer: ARC/L E LASHER, ARC/J R PHILLIPS
CASE Category: 13 – PHYSICS

NAG 2 864 UNIVERSITY OF SOUTHERN CALIFORNIA **2974**
COORDINATION OF EVOLVING CONVENTIONS ENABLING SHAR ING OF KNOWLEDGE
08/06/1993 – 08/31/1998 FY97: $566,520 Total: $1,481,516
Prin. Invest.: S LAU
Tech. Officer: ARC/P E FRIEDLAND
CASE Category: 22 – COMPUTER SCIENCE

NAG 2 6014 UNIVERSITY OF SOUTHERN CALIFORNIA **2975**
INTERACTIVE SPACE BIOLOGY MODULES
08/04/1997 – 09/30/1997 FY97: $50,000 Total: $50,000
Prin. Invest.: W L WONG
Tech. Officer: ARC/M J LEON
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 3 1523 UNIVERSITY OF SOUTHERN CALIFORNIA **2976**
STUDIES OF PREMIXED LAMINAR AND TURBULENT FLAMES A T MICROGRAVITY
09/09/1993 – 01/08/1998 FY97: $193,819 Total: $950,042
Prin. Invest.: P D RONNEY
Tech. Officer: LERC/K J WEILAND
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1611 UNIVERSITY OF SOUTHERN CALIFORNIA **2977**
FLOW AND AMBIENT ATMOSPHERE EFFECTS ON FLAME SPREA D AT MICROGRAVITY
06/01/1994 – 05/31/1998 FY97: $76,275 Total: $287,000
Prin. Invest.: P D RONNEY
Tech. Officer: LERC/S C OLSON, LERC/H D ROSS
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1615 UNIVERSITY OF SOUTHERN CALIFORNIA **2978**
AERODYNAMICS, UNSTEADY, KINETIC AND HEAT LOSS EFFE FTS ON THE DYNAMICS & STRUCTURE OF WEAKLY– BURNIN
06/15/1994 – 06/14/1998 FY97: $75,145 Total: $300,000
Prin. Invest.: F N EGOLFOPOULOS
Tech. Officer: LERC/H D ROSS
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1619 UNIVERSITY OF SOUTHERN CALIFORNIA **2979**
INTERACTION OF HELE–SHAW FLOWS WITH DIRECTIONAL SO LIDIFICA-TION: NUMERICAL INVESTIGATION OF NONLINEA
06/16/1994 – 12/31/1996 FY97: $0 Total: $100,000
Prin. Invest.: E MEIBURG
Tech. Officer: LERC/A CHAIT, LERC/M ZLATKOWSKI
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1621 UNIVERSITY OF SOUTHERN CALIFORNIA **2980**
THE INTRACTIVE DYNAMICS OF CONVECTION, LOW, AND DI RECTIONAL SOLIDIFICATION
06/16/1994 – 12/31/1996 FY97: $0 Total: $105,201
Prin. Invest.: T MAXWORTHY
Tech. Officer: LERC/A CHAIT, LERC/M ZLATKOWSKI
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1653 UNIVERSITY OF SOUTHERN CALIFORNIA **2981**
STUDIES OF RADIATION DRIVEN AND BUOYANCY DRIVEN FLUID FLOWS AND TRANSPORT
07/19/1994 – 07/18/1997 FY97: $0 Total: $100,000
Prin. Invest.: P D RONNEY
Tech. Officer: LERC/B S SINGH
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1842 UNIVERSITY OF SOUTHERN CALIFORNIA **2982**
GROUNG BASED STUDIES OF INTERNAL FLOWS IN LEVIATED LASER – HEATED DROPS
05/03/1996 – 05/31/2000 FY97: $70,000 Total: $190,000
Prin. Invest.: S S SADHAL
Tech. Officer: LERC/B S SINGH
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1877 UNIVERSITY OF SOUTHERN CALIFORNIA **2983**
DETAILED STUDIES ON THE STRUCTURE AND DAYNAMICS OF REACTING DUSTING FLOWS IN NORMAL AND MICROGRAVITY
06/01/1996 – 05/31/2000 FY97: $76,000 Total: $171,370
Prin. Invest.: P N EGOLFOPOULOS, P S CAMPBELL
Tech. Officer: LERC/D D ROSS, LERC/M A SOCKSTEILER
CASE Category: 46 – MECHANICAL ENGR

NAG 4 137 UNIVERSITY OF SOUTHERN CALIFORNIA **2984**
NASA'S ELECTRONIC PROCUREME..T SYSTEM AND THE IMPACT ON SMALL BUSINESS
07/28/1997 – 05/16/1998 FY97: $32,000 Total: $32,000
Prin. Invest.: K DOZIER
Tech. Officer: DFRC/Y KELLOGG, DFRC/E DUKE
CASE Category: 12 – CHEMISTRY

NAG 5 1296 UNIVERSITY OF SOUTHERN CALIFORNIA **2985**
DETERMINATION OF THE EFFECTIVE TEMPERATURE SURFACE GRAVITIES
09/15/1989 – 02/14/1998 FY97: $0 Total: $200,830
Prin. Invest.: G J PETERS
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2292 UNIVERSITY OF SOUTHERN CALIFORNIA **2986**
A SURVEY OF EUV EMISSION IN NEARBY BE STARS
06/11/1993 – 10/31/1996 FY97: $0 Total: $106,085
Prin. Invest.: G J PETERS
Tech. Officer: GSFC/R OLIVERSON
CASE Category: 11 – ASTRONOMY

NAG 5 2313 UNIVERSITY OF SOUTHERN CALIFORNIA **2987**
LONG–TERM FUV FLUX AND WIND VARIABILITY IN BE STAR S AND MULTI-WAVELENGTH OBS. ATEQUATOR–ON
07/12/1993 – 07/14/1997 FY97: $0 Total: $25,000
Prin. Invest.: G J PETERS
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 2951 UNIVERSITY OF SOUTHERN CALIFORNIA **2988**
TECTONIC CONTROLS ON LANDSCAPE DEVELOPMENT: A CASE STUDY OF THE SAN BERNARDINO AND SAN GABRIEL..
06/07/1995 – 06/14/1998 FY97: $71,326 Total: $199,828
Prin. Invest.: D W BURBANK
Tech. Officer: GSFC/H V FREY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 3113 UNIVERSITY OF SOUTHERN CALIFORNIA **2989**
DEVELOPEMENT OF ALGORITHMS OF PHYTOPLANKTON BIO– MASS, PRIMARY PRODUCTION AND ZOOPLANKTON BIOMASS..
10/19/1995 – 10/31/1997 FY97: $0 Total: $154,605
Prin. Invest.: D A KIEFER
Tech. Officer: GSFC/K R ARRIGO, GSFC/C R MCCLAIN
CASE Category: 33 – OCEANOGRAPHY

NAG 5 3429 UNIVERSITY OF SOUTHERN CALIFORNIA **2990**
THE ABUNDANCES OF THE IRON GROUP ELEMENTS IN EARLY B STARS
10/21/1996 – 10/31/1997 FY97: $28,500 Total: $28,500
Prin. Invest.: G J PETERS
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4159 UNIVERSITY OF SOUTHERN CALIFORNIA **2991**
ATOMIC AND MOLECULAR PROCESSES IN THE IO PLASMA TO
03/26/1997 – 12/31/1997 FY97: $60,000 Total: $60,000
Prin. Invest.: P E SHEMANSKY
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4488 UNIVERSITY OF SOUTHERN CALIFORNIA **2992**
EUVE OBSERVATIONS OF ACTIVE B STARS
06/04/1997 – 05/31/1998 FY97: $17,366 Total: $17,366
Prin. Invest.: G J PETERS
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 4539 UNIVERSITY OF SOUTHERN CALIFORNIA **2993**
"FEATHERWEIGHT" OPTICS FREE EUV SPECTROMETER FOR P MISSIONS
05/06/1997 – 05/31/1998 FY97: $124,606 Total: $124,606
Prin. Invest.: D L JUDGE, NONE
Tech. Officer: GSFC/C CAMPBELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 4591 UNIVERSITY OF SOUTHERN CALIFORNIA **2994**
OUTER PLANETS UPPER ATMOSPHERE/MAGNETOSPHERE RESEA
05/09/1997 – 12/31/1997 FY97: $60,000 Total: $60,000
Prin. Invest.: P E SHEMANSKY
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 5018 UNIVERSITY OF SOUTHERN CALIFORNIA **2995**
ROCKET UNDERFLIGHTS FOR SOHO CROSS–CALIBRATION AND SOLAR ATMOSPHERE INVESTIGATIONS
02/28/1994 – 02/28/1998 FY97: $296,013 Total: $1,000,031
Prin. Invest.: D J JUDGE
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 – PHYSICS

NAG 5 6104 UNIVERSITY OF SOUTHERN CALIFORNIA **2996**
HELIOSEISMOLOGICAL STUDIES OF THE STRUCTURE AND DY ATMOSPHERE AND INTERIOR
07/24/1997 – 06/30/1998 FY97: $104,000 Total: $104,000
Prin. Invest.: D RHODES
Tech. Officer: GSFC/W WAGNER
CASE Category: 13 – PHYSICS

NAG 5 6121 UNIVERSITY OF SOUTHERN CALIFORNIA **2997**
STUDY OF NEUTRAL GAS AND DUST IN THE SUN'S VICINIT
08/13/1997 – 04/30/1998 FY97: $34,927 Total: $34,927
Prin. Invest.: D A GRUNTMAN
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NAG 5 6216 UNIVERSITY OF SOUTHERN CALIFORNIA **2998**
EQUATION OF STATE STUDIES USING SOHO DATA
08/21/1997 – 07/31/1998 FY97: $49,444 Total: $49,444
Prin. Invest.: D DAPPEN
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NAG 8 1240 UNIVERSITY OF SOUTHERN CALIFORNIA **2999**
NUMERICAL & LABORATORY EXPERIMENTS ON INTERACTIVE DYNAMICS OF CONVECTION & DIRECTIONAL SOLIDIFICATIO
04/15/1996 – 04/15/1998 FY97: $62,500 Total: $187,499
Prin. Invest.: T MAXWORTHY, E MEIBURG
Tech. Officer: MSFC/F LESLIE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 13 UNIVERSITY OF SOUTHERN CALIFORNIA **3000**
THREE DIMENSIONAL OBSERVATIONAL STUDY OF SOLAR 5 MINUTE OSCILLATIONS
01/01/1980 – 09/30/1997 FY97: $0 Total: $2,600,846
Prin. Invest.: E J RHODES
Tech. Officer: HQ/J D BOHLIN, HQ/S KANE
CASE Category: 13 – PHYSICS

NAGW 1924 UNIVERSITY OF SOUTHERN CALIFORNIA **3001**
PHOTON ABSORPTION AND EMISSION STUDIES OF ATMOSPHE RIC GASES
02/06/1990 – 09/30/1997 FY97: $90,269 Total: $668,147
Prin. Invest.: D L JUDGE, NONE
Tech. Officer: HQ/J BERGSTRAHL
CASE Category: 11 – ASTRONOMY

NAGW 2834 UNIVERSITY OF SOUTHERN CALIFORNIA **3002**
NAGW-2834/UNIV SOUTHERN CA/A STUDY OF THE IO TORUS
01/17/1992 – 12/31/1996 FY97: $60,000 Total: $308,024
Prin. Invest.: D E SHEMANSKY
Tech. Officer: HQ/W L QUAIDE
CASE Category: 11 – ASTRONOMY

NAGW 3378 UNIVERSITY OF SOUTHERN CALIFORNIA **3003**
GROUND BASED STUDIES OF THERMOCAPILLARY FLOWS IN L EVITATED DROPS
02/24/1993 – 03/31/1996 FY97: $0 Total: $210,000
Prin. Invest.: S S SADHAL
Tech. Officer: HQ/B C CARPENTER
CASE Category: 46 – MECHANICAL ENGR

NAGW 3520 UNIVERSITY OF SOUTHERN CALIFORNIA **3004**
DEVELOPMENT OF A NEW TYPE OF EUV/UV FILTER FOR PLA NETARY MAGNETOSPHERE IMAGING IN ENA FLUXES
04/30/1993 – 08/31/1996 FY97: $0 Total: $209,324
Prin. Invest.: M GRUNTMAN
Tech. Officer: HQ/E C WHIPPLE, HQ/J D BOHLIN
CASE Category: 11 – ASTRONOMY

NAGW 3574 UNIVERSITY OF SOUTHERN CALIFORNIA **3005**
ANALYSIS OF PHOTOSYNTHETIC RATE AND BIO–OPTICAL CO MPONENTS FROM OCEAN COLOR IMAGERY
05/30/1993 – 08/31/1997 FY97: $0 Total: $587,465
Prin. Invest.: D A KIEFER
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 33 – OCEANOGRAPHY

NAGW 3762 UNIVERSITY OF SOUTHERN CALIFORNIA **3006**
APPLICATION OF DIGITAL ELEVATION AND REMOTELY SENS ED DATA TO NEOTECTONICS
09/23/1993 – 06/30/1997 FY97: $45,402 Total: $177,521
Prin. Invest.: D BURBANK, E PAYLOR
Tech. Officer: HQ/M BALTUCK
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3763 UNIVERSITY OF SOUTHERN CALIFORNIA **3007**
CONTRIBUTION OF PHYCOERYTHRIN–CONTAINING PHYTOPLAN KTON TO REMOTELY SENSE SIGNALS IN THE OCEAN
09/29/1993 – 02/28/1997 FY97: $0 Total: $145,000
Prin. Invest.: R ITURRIAGA, M VERNET
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 33 – OCEANOGRAPHY

NAGW 3905 UNIVERSITY OF SOUTHERN CALIFORNIA **3008**
OUTER PLANET UPPER ATMOSPHERE
03/23/1994 – 12/31/1996 FY97: $0 Total: $180,000
Prin. Invest.: D SHEMANSKY
Tech. Officer: HQ/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4380 UNIVERSITY OF SOUTHERN CALIFORNIA **3009**
THEORETICAL STUDY OF INTERPLANETARY DUST AS A SOUR CE OF SOLAR WIND PICKUP IONS
03/31/1995 – 09/30/1996 FY97: –$91 Total: $28,665
Prin. Invest.: M GRUNTMAN
Tech. Officer: HQ/W V JONES, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4800 UNIVERSITY OF SOUTHERN CALIFORNIA **3010**
HIGH–RESOLUTION TEMPERATURE–DEPENDENT ABSORPTION C ROSS SECTION MEASUREMENTS OF S2
11/03/1995 – 11/30/1996 FY97: $0 Total: $25,079
Prin. Invest.: R WU
Tech. Officer: HQ/E BARKER
CASE Category: 11 – ASTRONOMY

NAGW 5102 UNIVERSITY OF SOUTHERN CALIFORNIA **3011**
FEATHERWEIGHT OPTICS FREE EUV SPECTROMETER FOR PLA NETARY AND COMETARY MISSIONS
06/10/1996 – 12/31/1997 FY97: $0 Total: $115,967
Prin. Invest.: D L JUDGE
Tech. Officer: HQ/T KOSTIUK, HQ/H C BRINTON
CASE Category: 11 – ASTRONOMY

NAS 2 96009 UNIVERSITY OF SOUTHERN CALIFORNIA **3012**
MEMBERSHIP TO THE IMSC
08/13/1996 – 08/02/1998 FY97: $100,000 Total: $200,000
Prin. Invest.: C L NIKIAS
Tech. Officer: ARC/H LUM
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAS 8 40736 UNIVERSITY OF SOUTHERN CALIFORNIA **3013**
SPACE LAB MISSION
01/29/1996 – 12/31/1997 FY97: $304,263 Total: $454,263
Prin. Invest.: P J RONNEY
Tech. Officer: MSFC/T VANHOOSER
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAS 8 97115 UNIVERSITY OF SOUTHERN CALIFORNIA **3014**
U.S.C. RTTC
01/30/1997 – 12/31/1997 FY97: $985,000 Total: $985,000
Prin. Invest.: G BEKEY
Tech. Officer: ARC/C CASTELLANO
CASE Category: 42 – ASTRONAUTICAL ENGR

NASW 4680 UNIVERSITY OF SOUTHERN CALIFORNIA **3015**
NASW-4680/UNIV SOUTHERN CA/NASA RTTC LOCATED IN THE FAR WEST REGION OF THE U.S.
12/20/1991 – 10/31/1997 FY97: $406,193 Total: $6,290,000
Prin. Invest.: R STARK
Tech. Officer: HQ/F E PENARANDA
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 2 539 UNIVERSITY OF SOUTHERN CALIFORNIA **3016**
CENTER FOR EXPERIMENTAL RESEARCH IN PARALLELALGORITHMS, SOFTWARE, AND SYSTEMS
05/01/1988 – 05/31/1996 FY97: –$36,358 Total: $5,280,535
Prin. Invest.: D W MIZELL
Tech. Officer: ARC/H LUM, ARC/D B MCKELLAR
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 910 UNIVERSITY OF SOUTHERN CALIFORNIA **3017**
INDIVIDUAL DIFFERENCES IN THE STRATEGIC MANAGEMENT OF WORK-LOAD FOR AIR CARRIER PILOTS
06/26/1995 – 03/31/1998 FY97: $0 Total: $77,622
Prin. Invest.: D L DAMOS
Tech. Officer: ARC/E A PALMER, ARC/M G SHAFTO
CASE Category: 49 – ENGINEERING, OTHER

NCC 3 501 UNIVERSITY OF SOUTHERN CALIFORNIA **3018**
THE HIGH-LEWIS NUMBER DIFFUSIVE-THERMAL INSTABILIT Y IN PRE-MIXED GAS COMBUSTION & LOW TEMPERATURE HY
09/05/1996 – 09/04/2000 FY97: $32,000 Total: $128,913
Prin. Invest.: H G PEARLMAN, NONE
Tech. Officer: LERC/D W GRIFFIN
CASE Category: 46 – MECHANICAL ENGR

NGT 30108 UNIVERSITY OF SOUTHERN CALIFORNIA **3019**
NGT-30108/UNIV SOUTHERN CALIF/GLOBAL CHANGE FELLOWSHIP PROGRAM
10/21/1992 – 12/31/1995 FY97: –$72 Total: $65,928
Prin. Invest.: R M KUDELA
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 33 – OCEANOGRAPHY

NGT 30180 UNIVERSITY OF SOUTHERN CALIFORNIA **3020**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/25/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: T DICKEY
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 30237 UNIVERSITY OF SOUTHERN CALIFORNIA **3021**
GLOBAL CHANGE FELLOWSHIP PROGRAM
10/10/1994 – 08/31/1997 FY97: $0 Total: $65,958
Prin. Invest.: D A KIEFER
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 33 – OCEANOGRAPHY

NGT 51358 UNIVERSITY OF SOUTHERN CALIFORNIA **3022**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/08/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: P D RONNEY
Tech. Officer: HQ/G A LESANE
CASE Category: 46 – MECHANICAL ENGR

NGT 70290 UNIVERSITY OF SOUTHERN CALIFORNIA **3023**
NGT-70290/UNIV SOUTHERN CA @ LOS ANGELES/GRADUATE STUDENT RESEARCHERS PROGRAM
08/14/1992 – 08/31/1996 FY97: –$1 Total: $87,999
Prin. Invest.: G A BEKEY
Tech. Officer: GSFC/H ASKHENES
CASE Category: 22 – COMPUTER SCIENCE

NGT 90142 UNIVERSITY OF SOUTHERN CALIFORNIA **3024**
NGT-90142/UNIV SOUTHERN CA/UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
11/02/1992 – 08/14/1996 FY97: –$11,853 Total: $24,147
Prin. Invest.: L YATES
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90171 UNIVERSITY OF SOUTHERN CALIFORNIA **3025**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/27/1993 – 08/14/1996 FY97: –$2,000 Total: $26,000
Prin. Invest.: L YATES
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 3 52336 UNIVERSITY OF SOUTHERN CALIFORNIA **3026**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/19/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J SILVESTER
Tech. Officer: LERC/F MONTEGANI
CASE Category: 45 – ELECTRICAL ENGR

NGT 5 90023 UNIVERSITY OF SOUTHERN CALIFORNIA **3027**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
12/31/1996 – 08/14/1997 FY97: $12,000 Total: $12,000
Prin. Invest.: L A YATES
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 45 – ELECTRICAL ENGR

NSG 5108 UNIVERSITY OF SOUTHERN CALIFORNIA **3028**
ROCKET EXPERIMENTS TO MEASURE THE SOLAR SPECTRAL PROFILE & INTENSITY
04/01/1976 – 10/31/1997 FY97: $159,918 Total: $2,995,409
Prin. Invest.: D L JUDGE, H S OGAWA
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NSG 5422 UNIVERSITY OF SOUTHERN CALIFORNIA **3029**
A COMPARATIVE STUDY OF THE LAR ULTRAVIOLET SPECTRA OF BE STARS
10/15/1979 – 01/31/1998 FY97: $0 Total: $357,240
Prin. Invest.: G J PETERS, R S POLIDAN, J RPERCY
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 4 122 VICTOR VALLEY COLLEGE **3030**
INQUIRY-BASED STRATEGIES FOR SUCCESS
03/27/1997 – 07/30/1997 FY97: $20,000 Total: $20,000
Prin. Invest.: P CHIMIKLIS
Tech. Officer: DFRC/L DUKE
CASE Category: 22 – COMPUTER SCIENCE

COLORADO

NAG 8 1226 COLORADO COLLEGE **3031**
JOVE
02/22/1996 – 08/31/1998 FY97: $17,000 Total: $60,000
Prin. Invest.: C E FOSHA, M F AUGUSTEIJN
Tech. Officer: MSFC/D SIX
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 3 1409 COLORADO SCHOOL OF MINES **3032**
THE EFFECTS OF MICROGRAVITY ON VAPOR PHASE SINTERI NG
01/05/1993 – 02/10/1998 FY97: $62,704 Total: $479,111
Prin. Invest.: D READY
Tech. Officer: LERC/T K GLASGOW, LERC/R ASTHANA
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1628 COLORADO SCHOOL OF MINES **3033**
COMBUSTION OF PTIE: THE EFFECTS OF GRAVITY ON ULT RAFINE PARTICLE GENERATION
06/24/1994 – 06/23/1998 FY97: $124,681 Total: $469,000
Prin. Invest.: J T MCKINNON
Tech. Officer: LERC/R FRIEDMAN, LERC/H D ROSS
CASE Category: 43 – CHEMICAL ENGR

NAG 3 1698 COLORADO SCHOOL OF MINES **3034**
STUDY OF COMBUSTION SYNTHESIS OF CERAMIC–METAL COMPOSITE MATERIALS UNDER MICROGRAVITY CONDITIONS – P
01/19/1995 – 01/18/1998 FY97: $125,000 Total: $365,000
Prin. Invest.: J J MOORE
Tech. Officer: LERC/S GOKOGLU
CASE Category: 47 – METAL & MATERIALSENGR

NAG 3 1970 COLORADO SCHOOL OF MINES **3035**
NMRI MEASRUEMENTS & GRANULAR DYNAMICS SIMULATIONS OF SEGREGATION OF GRANULAR MIXTURES
09/25/1996 – 09/18/1999 FY97: $150,523 Total: $328,172
Prin. Invest.: M NAKAGAWA, E FUKUSHIMA
Tech. Officer: LERC/B SINGH
CASE Category: 46 – MECHANICAL ENGR

NCC 3 289 COLORADO SCHOOL OF MINES **3036**
THE SYNERGISTIC EFFECT OF CERAMIC MATERIALS SYNTHE SIS USING VAPRO–ENHANCED REACT SINT UNDER MICROGR
01/06/1993 – 06/30/1996 FY97: $0 Total: $375,000
Prin. Invest.: J J MOORE
Tech. Officer: LERC/E S NELSON, LERC/T GLASGOW
CASE Category: 47 – METAL & MATERIALSENGR

NCCW 96 COLORADO SCHOOL OF MINES **3037**
THE CENTER FOR COMMERCIAL APPLICATIONS OF COMBUSTION IN SPACE
05/01/1996 – 10/31/1997 FY97: $634,788 Total: $1,158,613
Prin. Invest.: F SCHOWENGERDT, NONE
Tech. Officer: HQ/M NALL
CASE Category: 49 – ENGINEERING, OTHER

NAG 1 1266 COLORADO STATE UNIVERSITY **3038**
AN INTERDISCIPLINARY SCIENCE INVESTIGATION OF CLOUDS AND THE EARTH'S RADIANT ENERGY SYSTEM–CERES
05/06/1991 – 05/02/1998 FY97: $170,000 Total: $827,773
Prin. Invest.: D A RANDALL
Tech. Officer: LARC/B A WIELICKI, LARC/J W YOUNGBLOOD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1461 COLORADO STATE UNIVERSITY **3039**
REUSE METRICS FOR OBJECT ORIENTED SOFTWARE NLPN 92–821
12/04/1992 – 11/01/1997 FY97: $20,001 Total: $179,998
Prin. Invest.: J M BIEMAN
Tech. Officer: LARC/K A SMITH, LARC/W H BRYANT
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1701 COLORADO STATE UNIVERSITY **3040**
INTERACTIONS OF THE CLOUDY ARCTIC BOUNDARY LAYER WITH VARIABLE SURFACE CONDITIONS AND LARGE–SCALE
04/10/1995 – 04/30/1998 FY97: $75,000 Total: $224,999
Prin. Invest.: D A RANDALL
Tech. Officer: LARC/D S MCDOUGAL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1702 COLORADO STATE UNIVERSITY **3041**
A NEW APPROACH TO THE REMOTE SENSING OF CIRRUS CLOUD PARAMETERS USING SUBMILLIMETER RADIOMETER
05/08/1995 – 05/07/1998 FY97: $61,595 Total: $147,595
Prin. Invest.: G L STEPHENS, K F EVANS
Tech. Officer: LARC/D S MCDOUGAL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1703 COLORADO STATE UNIVERSITY **3042**
LARGE EDDY SIMULATION OF CIRRUS CLOUDS
04/24/1995 – 04/30/1998 FY97: $40,553 Total: $111,542
Prin. Invest.: W R COTTON
Tech. Officer: LARC/D S MCDOUGAL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1704 COLORADO STATE UNIVERSITY **3043**
RELATIVE SIGNIFICANCE OF MIDDLE AND UPPER TROPOSPHERIC CLOUDS
03/21/1995 – 03/31/1998 FY97: $148,000 Total: $444,000
Prin. Invest.: S K COX, J M DAVIS
Tech. Officer: LARC/D S MCDOUGAL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 924 COLORADO STATE UNIVERSITY **3044**
MEASUREMENTS OF ICE NUCLEATING AEROSOLS IN THE UPP ER TROPOSPHERE AND LOWER STRATOSPHERE
08/10/1994 – 04/30/1997 FY97: $0 Total: $363,761
Prin. Invest.: S M KREIDENWEISS
Tech. Officer: ARC/E P CONDON, ARC/O B TOOM
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 1109 COLORADO STATE UNIVERSITY **3045**
ANALYSIS OF ICE NUCLEATING AEROSOL MEASUREMENTS DU RING SUCCESS – APRIL, MAY 1996
01/31/1997 – 12/31/1997 FY97: $69,575 Total: $69,575
Prin. Invest.: D C ROGERS, P J DEMOTT, S M KREIDENSEIS
Tech. Officer: ARC/E P CONDON, ARC/S S WEGENER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 3 1700 COLORADO STATE UNIVERSITY **3046**
SPACE-PLASMA CONTRACTOR RESEARCH
01/26/1995 – 07/25/1996 FY97: $0 Total: $69,998
Prin. Invest.: P J WILBUR
Tech. Officer: LERC/J GALOFARO
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1801 COLORADO STATE UNIVERSITY **3047**
ADVANCED ELECTRIC PROPULSION RESEARCH
01/23/1996 – 11/22/1997 FY97: $30,061 Total: $55,066
Prin. Invest.: P J WILBUR
Tech. Officer: LERC/V K RAWLIN
CASE Category: 13 – PHYSICS

NAG 5 1058 COLORADO STATE UNIVERSITY **3048**
HYDROLOGICAL CLOUD STUDIES
07/15/1988 – 08/31/1997 FY97: $0 Total: $670,806
Prin. Invest.: D RANDALL
Tech. Officer: GSFC/W WISCOMBE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2302 COLORADO STATE UNIVERSITY **3049**
MODELING BIOSPHERE-ATMOSPHERE INTERACTIONS AT VARI OUS SCALES IN SUPPORT OF BOREAS
06/30/1993 – 06/30/1997 FY97: $114,729 Total: $294,729
Prin. Invest.: R A PIELKE
Tech. Officer: GSFC/F G HALL, GSFC/P SELLERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2692 COLORADO STATE UNIVERSITY **3050**
GROUND TRUTH RESEARCH AND ALGORITHM DEVELOPMENT IN SUP-PORT OF TRMM
08/26/1994 – 02/28/1998 FY97: $145,000 Total: $377,000
Prin. Invest.: S A RUTLEDGE
Tech. Officer: GSFC/S A ALDER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3449 COLORADO STATE UNIVERSITY **3051**
WATER VAPOR IN THE CLIMATE SYSTEM (RTOP # 148-65-
11/05/1996 – 10/31/1997 FY97: $300,000 Total: $300,000
Prin. Invest.: G L STEPHENS
Tech. Officer: GSFC/J C DODGE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3768 COLORADO STATE UNIVERSITY **3052**
HZE RADIATION GENOTOXICITY IN CULTURED MANNALIAN C
02/06/1997 – 11/30/1997 FY97: $129,794 Total: $129,794
Prin. Invest.: C A WALDREN
Tech. Officer: GSFC/S SCHIMMERLING
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 4073 COLORADO STATE UNIVERSITY **3053**
CLIMATE SENSITIVITY OF THAW LAKE SYSTEMS ON THE AL
03/17/1997 – 12/31/1997 FY97: $12,298 Total: $12,298
Prin. Invest.: D LISTON
Tech. Officer: GSFC/R H THOMAS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4646 COLORADO STATE UNIVERSITY **3054**
TITLE: USING MULTI-SENSOR DATA TO MODEL FACTORS L IN GLOBAL ARID & SEMIARID LANDS
06/17/1997 – 05/31/1998 FY97: $610,800 Total: $610,800
Prin. Invest.: D OJIMA
Tech. Officer: GSFC/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4749 COLORADO STATE UNIVERSITY **3055**
ANALYSIS OF THE DUIRNAL CYCLE OF PRECIPITATION AND RADIATIVE FORCING USING TRMM PRODUCTS
06/26/1997 – 06/30/1998 FY97: $119,534 Total: $119,534
Prin. Invest.: D RANDALL
Tech. Officer: GSFC/O THIELE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4754 COLORADO STATE UNIVERSITY **3056**
VALIDATION STUDIES AND ALGORITHM REFINEMENT IN SUP
06/17/1997 – 05/31/1998 FY97: $120,000 Total: $120,000
Prin. Invest.: S A RUTLEDGE
Tech. Officer: GSFC/R A ALDER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4760 COLORADO STATE UNIVERSITY **3057**
RECONSTRUCTING SNOW-DEPTH DISTRIBUTIONS USING MODI AND A REGIONAL ATMOSPHERIC MODEL
06/09/1997 – 09/30/1997 FY97: $25,000 Total: $25,000
Prin. Invest.: G E LISTON
Tech. Officer: GSFC/D K HALL
CASE Category: 55 – AGRICULTURE

NAG 5 4983 COLORADO STATE UNIVERSITY **3058**
THE BIO-ATMOSPHERIC CYCLES OF NITROGEN AND CARBON: POLLU-TION AND TERRESTRIAL ECOSYSTEMS
08/29/1997 – 07/31/1998 FY97: $25,000 Total: $25,000
Prin. Invest.: W PARTON
Tech. Officer: HQ/D WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 5188 COLORADO STATE UNIVERSITY **3059**
WORKSHOP ON THE DEVELOPMENT OF A TEMPERATE EAST AS DATA-BASE
07/18/1997 – 07/31/1998 FY97: $35,000 Total: $35,000
Prin. Invest.: D OJIMA
Tech. Officer: GSFC/A JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6228 COLORADO STATE UNIVERSITY **3060**
VEMAP PHASE II
09/11/1997 – 06/30/1998 FY97: $101,452 Total: $101,452
Prin. Invest.: D OJIMA
Tech. Officer: GSFC/A JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 2069 COLORADO STATE UNIVERSITY **3061**
INFLATABLE STRUCTURES FOR A LUNAR BASE
04/27/1990 – 03/31/1997 FY97: -$1 Total: $337,701
Prin. Invest.: M E CRISWELL, P S NOWAK
Tech. Officer: HQ/G I JOHNSTON
CASE Category: 46 – MECHANICAL ENGR

NAGW 2662 COLORADO STATE UNIVERSITY **3062**
USING MULTI-SENSOR DATA TO MODEL FACTORS LIMITING CARBON BALANCE IN GLOBAL ARID AND SEMIARID LANDS
08/22/1991 – 09/30/1996 FY97: $0 Total: $3,109,969
Prin. Invest.: D S SCHIMEL
Tech. Officer: HQ/R E MURPHY, HQ/W S WILSON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 2700 COLORADO STATE UNIVERSITY **3063**
NAGW-2700/COLORADO STATE UNIV/GLOBAL ANALYSIS OF T HE EARTH ENERGY BUDGET & WATER CYCLE USING SATELL
09/16/1991 – 11/30/1997 FY97: $0 Total: $575,550
Prin. Invest.: T H HAAR
Tech. Officer: HQ/J C DODGE, HQ/A J TUYAHOV
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3957 COLORADO STATE UNIVERSITY **3064**
RADIOBIOLOGICAL STUDIES
04/25/1994 – 03/31/1997 FY97: $0 Total: $180,000
Prin. Invest.: J T LETT
Tech. Officer: HQ/F M SULZMAN
CASE Category: 56 – MEDICL

NAGW 4122 COLORADO STATE UNIVERSITY **3065**
STUDIES OF THE EARTH ENERGY BUDGET AND WATER CYCLE USING SATELLITE OBSERVATIONS AND MODEL ANALYSES
09/08/1994 – 09/30/1997 FY97: $0 Total: $162,540
Prin. Invest.: G C CAMPBELL
Tech. Officer: HQ/J C DODGE, HQ/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4924 COLORADO STATE UNIVERSITY **3066**
HZE RADIATION GENOTOXICITY IN CULTURED MANNALIAN CELLS
02/12/1996 – 05/31/1997 FY97: $0 Total: $129,794
Prin. Invest.: C A WALDREN, PH.D.
Tech. Officer: HQ/W SCHIMMERLING
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 5242 COLORADO STATE UNIVERSITY **3067**
VEMP PHASE II
11/18/1996 – 12/31/1997 FY97: $100,732 Total: $100,732
Prin. Invest.: D S OJIMA
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG10 234 COLORADO STATE UNIVERSITY **3068**
GRAVITY INDUCED CHANGES IN GENE EXPRESSION
09/22/1997 – 08/15/1998 FY97: $172,340 Total: $172,340
Prin. Invest.: A N REDDY
Tech. Officer: KSC/W M KNOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAS 1 19951 COLORADO STATE UNIVERSITY **3069**
SCIENCE SUPPORT TO THE LITE SCIENCE TEAM
07/20/1993 – 10/19/1999 FY97: $62,000 Total: $236,999
Prin. Invest.: D RANDALL
Tech. Officer: LARC/G L MADDREA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 3 26410 COLORADO STATE UNIVERSITY **3070**
ACTS PROPAGATION EXPERIMENTS
05/19/1993 – 03/31/1998 FY97: $98,583 Total: $411,788
Prin. Invest.: V N BRINGI
Tech. Officer: LERC/R J GUNDERMAN
CASE Category: 41 – AERONAUTICAL ENGNR

NAS 5 31730 COLORADO STATE UNIVERSITY **3071**
EOS – BIOSPHERE – ATMOSPHERE INTERACTION" STUDY
10/18/1991 – 12/31/1999 FY97: $145,250 Total: $1,131,250
Prin. Invest.: D RANDALL
Tech. Officer: GSFC/P SELLERS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 8 97082 COLORADO STATE UNIVERSITY **3072**
A STUDY OF THE ROLE OF CLOUDS IN THE RELATIONSHIP BETWEEN LAND USE/LAND COVER AND THE CLIMATE
11/21/1996 – 11/20/1998 FY97: $113,758 Total: $113,758
Prin. Invest.: S Q KIDDER
Tech. Officer: MSFC/T MILLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 907 COLORADO STATE UNIVERSITY **3073**
A CRITICAL ANALYSIS OF EDUCATION & SCIENCE COMMUNI CATION PROGRAMS IN THE SPACE LIFE SCIENCES
07/17/1995 – 09/30/1998 FY97: $290,343 Total: $1,104,243
Prin. Invest.: G R COULTER
Tech. Officer: ARC/R A GRYMES
CASE Category: 59 – LIFE SCIENCE, OTHER

NGT 30147 COLORADO STATE UNIVERSITY **3074**
NGT-30147/COLORADO STATE UNIV/GLOBAL CHANGE FELLOWSHIP PROGRAM
10/21/1992 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: J A KNAFF
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 30190 COLORADO STATE UNIVERSITY **3075**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/25/1993 – 02/28/1997 FY97: $0 Total: $66,000
Prin. Invest.: R H JOHNSON
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30231 COLORADO STATE UNIVERSITY **3076**
GLOBAL CHANGE FELLOWSHIP AWARD
10/04/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: W R COTTON
Tech. Officer: HQ/J S THEON, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30252 COLORADO STATE UNIVERSITY **3077**
GLOBAL CHANGE FELLOWSHIP AWARD
10/04/1994 – 08/31/1998 FY97: $0 Total: $66,000
Prin. Invest.: J K DETHING
Tech. Officer: HQ/AC JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30268 COLORADO STATE UNIVERSITY **3078**
GLOBAL CHANGE FELLOWSHIP AWARD
10/04/1994 – 11/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: S A RUTLEDGE
Tech. Officer: HQ/J S THEON, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 50929 COLORADO STATE UNIVERSITY **3079**
NGT-50929/COLORADO STATE UNIV/GRADUATE STUDENT RESEARCHERS PROGRAM
05/29/1992 – 12/31/1995 FY97: $0 Total: $66,000
Prin. Invest.: W Z SADEH
Tech. Officer: HQ/J K ALEXANDER
CASE Category: 44 – CIVIL ENGR

NGT 51419 COLORADO STATE UNIVERSITY **3080**
GSRP
08/29/1995 – 06/30/1998 FY97: $0 Total: $44,000
Prin. Invest.: R W GOTSHALL
Tech. Officer: HQ/G LESANE
CASE Category: 56 – MEDICL

NGT 70373 COLORADO STATE UNIVERSITY **3081**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
08/22/1994 – 09/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: W Z SADEH
Tech. Officer: HQ/D K RUSSELL
CASE Category: 44 – CIVIL ENGR

NGT 5 30001 COLORADO STATE UNIVERSITY **3082**
STUDIES OF HOMMOGENEOUS FREEZING NUCLEATION AT THE CONDITIONS
10/23/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: S KREIDENWEIS
Tech. Officer: GSFC/G ASRAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 5 30024 COLORADO STATE UNIVERSITY **3083**
PARTIONING OF ECOSYSTEM RESPIRATION AND VECTORS OF SIS USING D13C/D180 WITH IMPLICATITONS FOR NDVI–D
10/17/1996 – 08/31/1997 FY97: $44,000 Total: $44,000
Prin. Invest.: E KELLY
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 50007 COLORADO STATE UNIVERSITY **3084**
RETRIVAL OF CIRRUS CLOUD MICROPHYSICAL & RADIATIVE SPECTRAL MODIS & MAS MEASUREMENTS
11/16/1996 – 08/31/1997 FY97: $44,000 Total: $44,000
Prin. Invest.: G STEPHENS
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NGT 5 50069 COLORADO STATE UNIVERSITY **3085**
COMPUTER SIMULATION OF CARDIOVASCULAR FUNCTION IN
09/02/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: R GOTSHALL
Tech. Officer: GSFC/L CHAMBER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 9 11 COLORADO STATE UNIVERSITY **3086**
VACUUM PROCESSING
07/03/1996 – 07/31/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: M B STONE, J A MAGA, R W PHILLIPS
Tech. Officer: JSC/D G SICKOREZ
CASE Category: 55 – AGRICULTURE

NAG 1 1355 UNIVERSITY OF COLORADO – BOULDER **3087**
OBSERVATIONAL AND MODELING STUDIES OF RADIATIVE CH EMICAL AND DYNAMICAL INTERACTIONS IN THE EARTH AT
12/18/1991 – 12/31/1997 FY97: $0 Total: $448,200
Prin. Invest.: M L SALBY
Tech. Officer: LARC/W L GROSE, LARC/E E REMSBERG
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1491 UNIVERSITY OF COLORADO – BOULDER **3088**
IONOSPHERIC CALIBRATION FOR SINGLE FREQUENCY ALTIMETER MEASUREMENTS
02/25/1993 – 02/28/1997 FY97: –$1 Total: $150,000
Prin. Invest.: G H BORN, W SCHREINER
Tech. Officer: LARC/S J KZETZBERG, LARC/J W JOHNSON
CASE Category: 33 – OCEANOGRAPHY

NAG 1 1642 UNIVERSITY OF COLORADO – BOULDER **3089**
EFFECT OF SMEARED ORTHOTROPIC STIFFNESS PROPERTIES ON THE FLAW SENSITIVITY OF STIFFENED PANELS
09/01/1994 – 03/31/1998 FY97: $23,988 Total: $110,694
Prin. Invest.: M M MIKULAS
Tech. Officer: LARC/J H STARNES, LARC/W B FICHTER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1700 UNIVERSITY OF COLORADO – BOULDER **3090**
ANALYSIS AND DESIGN METHODOLOGY FOR SMALL SPACECRA FT
04/20/1995 – 04/30/1998 FY97: $258,800 Total: $586,008
Prin. Invest.: M MUKULAS, K C PARK, R SU
Tech. Officer: LARC/M D RHODES, LARC/W K BELVIN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1708 UNIVERSITY OF COLORADO – BOULDER **3091**
APPLICATION OF LES TO UNDERSTANDING AND PARAMETER– IZING THE ARCTIC CLOUDY BOUNDARY LAYER
04/20/1995 – 04/30/1998 FY97: $132,000 Total: $396,000
Prin. Invest.: J CURRY, W COTTON
Tech. Officer: LARC/D S MCDOUGAL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1738 UNIVERSITY OF COLORADO – BOULDER **3092**
GPS FOR RENDEZVOUS NAVIGATION INSIDE AND OUTSIDE THE CONSTELLATION
07/13/1995 – 08/30/1996 FY97: –$21 Total: $14,980
Prin. Invest.: P AXELRAD
Tech. Officer: LARC/D J KATZBERG
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 1 1840 UNIVERSITY OF COLORADO – BOULDER **3093**
SUBMICRON PRECISION DEPLOYABLE SPACECRAFT STRUCTURES
06/10/1996 – 08/31/1997 FY97: $10,000 Total: $85,000
Prin. Invest.: D D PERTERSON
Tech. Officer: LARC/M S LAKE
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 1 1862 UNIVERSITY OF COLORADO – BOULDER **3094**
COMPUTER ENVIRONMENT FOR DESIGN COLLABORATION, INTEGRATION, AND CAPTURE
07/25/1996 – 07/31/1997 FY97: $0 Total: $67,000
Prin. Invest.: R SU, D LAWRENCE
Tech. Officer: LARC/W J STROUD, LARC/R E GILLIAN
CASE Category: 69 – PSYCHOLOGY, OTHER

NAG 1 1864 UNIVERSITY OF COLORADO – BOULDER **3095**
LIGHT-WEIGHT ADVANCED AEROACOUSTIC NACELLE DEVELOPMENT
09/09/1996 – 09/08/1997 FY97: $86,233 Total: $99,566
Prin. Invest.: S BIRINGEN
Tech. Officer: LARC/T L PARROTT
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1873 UNIVERSITY OF COLORADO – BOULDER **3096**
HPCC METHODOLOGIES FOR STRUCTURAL DESIGN AND ANALYSIS ON PARALLEL & DISTRIBUTED PLATFORMS
09/26/1996 – 09/30/1997 FY97: $48,102 Total: $58,102
Prin. Invest.: C FARHAT
Tech. Officer: LARC/R E GILLIAN, LARC/W J STROUD
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1923 UNIVERSITY OF COLORADO – BOULDER **3097**
COMPARISON OF SAGE AND SONDE OZONE DATA FOR THE ICO/SPARC OZONE TREND REVIEW
05/01/1997 – 10/31/1997 FY97: $34,879 Total: $34,879
Prin. Invest.: D W FUSCH
Tech. Officer: LARC/L R POOLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1927 UNIVERSITY OF COLORADO – BOULDER **3098**
REFLECTED GPS SIGNALS: THEORY AND EXPERIMENTS MY 1/2
05/23/1997 – 05/31/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: 1 B BORN, P AXELRAD
Tech. Officer: LARC/S J KATZBERG, LARC/M J FEREBEE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 753 UNIVERSITY OF COLORADO – BOULDER **3099**
AIRBORNE ASTROMONY WITH 100UM-400UM HETERODYE SPEC TROMETER
01/29/1992 – 01/31/1998 FY97: $0 Total: $850,000
Prin. Invest.: A L BETZ
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 827 UNIVERSITY OF COLORADO – BOULDER **3100**
MASSIVELY PARALLE & SCALABLE IMPLICIT TIME INTEGRA TION ALGORITHMS FOR STRUCTURALDYNAMICS
03/24/1993 – 12/31/1996 FY97: $0 Total: $207,994
Prin. Invest.: C FARHAT
Tech. Officer: ARC/A C WOO, ARC/E BARSZCZ
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 861 UNIVERSITY OF COLORADO – BOULDER **3101**
VENUS COMPOSTION PROBE DISOVERY MISSION
07/28/1993 – 06/30/1997 FY97: –$283 Total: $223,876
Prin. Invest.: L W ESPOSITO
Tech. Officer: ARC/L E LASHER, ARC/G S HUBBARD
CASE Category: 11 – ASTRONOMY

NAG 2 862 UNIVERSITY OF COLORADO – BOULDER **3102**
A TOOLKIT FOR ACTIVE OBJECT–ORIENTED DATABASES WIT H APPLICATION TO INTEROPERABILITY
07/29/1993 – 02/28/1997 FY97: $0 Total: $682,585
Prin. Invest.: R KING
Tech. Officer: ARC/S LAU
CASE Category: 22 – COMPUTER SCIENCE

NAG 2 953 UNIVERSITY OF COLORADO – BOULDER **3103**
PHYSICAL & CHEMICAL CHARACTERIZATION OF PARTICLES IN THE UPPER TROPOSPHERE & LOWER STRATOSPHERE:....
12/23/1994 – 11/30/1997 FY97: $14,806 Total: $210,628
Prin. Invest.: P J SHERIDAN
Tech. Officer: ARC/E P CONDON, ARC/O B TOON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 989 UNIVERSITY OF COLORADO – BOULDER **3104**
SOFIA SCIENCE WORKING GROUP
06/21/1995 – 05/31/1997 FY97: $0 Total: $26,568
Prin. Invest.: J M SHULL
Tech. Officer: ARC/E F ERICKSON
CASE Category: 11 – ASTRONOMY

NAG 2 1056 UNIVERSITY OF COLORADO – BOULDER **3105**
FAR–INFRARED LINE PROFILES FROM PHOTODISSOCIATION REGIONS & WARM MOLECULAR CLOUDS
07/01/1996 – 12/31/1997 FY97: $0 Total: $60,000
Prin. Invest.: R T BOREIKO
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 1062 UNIVERSITY OF COLORADO – BOULDER **3106**
A FAR–INFRARED HETERODYNE SPECTROMETER FOR SOFIA
07/03/1996 – 12/31/1997 FY97: $0 Total: $112,000
Prin. Invest.: A L BETZ
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 1116 UNIVERSITY OF COLORADO – BOULDER **3107**
MODELING ATMOSPHERIC AEROSOLS PROPERTIES FOR EARTH 'S RADIATION BUDGET & CLIMATE CHANGE STUDIES
02/14/1997 – 01/31/1998 FY97: $255,367 Total: $255,367
Prin. Invest.: I N SOKOLIK
Tech. Officer: ARC/E J JENSEN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 1124 UNIVERSITY OF COLORADO – BOULDER **3108**
MEASUREMENTS OF LONG LIVED TRACE GASES FROM COMMER CIAL AIRCRAFT PLATFORMS: INSTRUMENT DEVELOPMENT
04/08/1997 – 09/30/1997 FY97: $118,306 Total: $118,306
Prin. Invest.: L M AVALLONE
Tech. Officer: ARC/E P CONDON, ARC/S S WEGENER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 1127 UNIVERSITY OF COLORADO – BOULDER **3109**
MULTIDIMENSIONAL MODELING OF SULFATE AEROSOLS
04/22/1997 – 03/31/1998 FY97: $158,147 Total: $158,147
Prin. Invest.: M J MILLS
Tech. Officer: ARC/E J JENSEN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 3 1389 UNIVERSITY OF COLORADO – BOULDER **3110**
PHASE SEGREGATION DUE TO SIMULTANEOUS MIGRATION & COALESCENCE
11/23/1992 – 12/31/1996 FY97: $0 Total: $120,000
Prin. Invest.: R H DAVIS
Tech. Officer: LERC/J A SALZMAN
CASE Category: 43 – CHEMICAL ENGR

NAG 3 1410 UNIVERSITY OF COLORADO – BOULDER **3111**
MODELING & NEW EXPERIMENT DEFINITION FOR THE VIBRA TION ISOLATION BOX EXPERIMENT SYSTEM
01/25/1993 – 09/14/1996 FY97: $0 Total: $120,000
Prin. Invest.: R L SANI
Tech. Officer: LERC/J A SALZMAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1425 UNIVERSITY OF COLORADO – BOULDER **3112**
HIGH PERFORMANCE PARALLEL ANALYSIS OF COUPLED PROB LEMS FOR AIRCRAFT PROPULSION
12/23/1992 – 07/31/1996 FY97: -$10 Total: $234,990
Prin. Invest.: C FILIPPA, C H FARHAT, K C PARK
Tech. Officer: LERC/C C CHAMIS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1566 UNIVERSITY OF COLORADO – BOULDER **3113**
COMPUTATIONAL FLUID DYNAMICS BASED ON THE METHOD O F SPACE–TIME CONSERVATION ELEMENT & SOLUTION ELE
02/03/1994 – 02/02/1998 FY97: $83,549 Total: $205,602
Prin. Invest.: C Y CHOW
Tech. Officer: LERC/S C CHANG
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1600 UNIVERSITY OF COLORADO – BOULDER **3114**
STUDIES OF FREELY SUSPENDED LIQUID CRYSTALS BUBBLE S
05/17/1994 – 05/16/1996 FY97: $0 Total: $100,000
Prin. Invest.: N A CLARK
Tech. Officer: LERC/J S LING
CASE Category: 13 – PHYSICS

NAG 3 1616 UNIVERSITY OF COLORADO – BOULDER **3115**
THREE DIMENSIONAL FLOW OF MICROGRAVITY DIFFUSION FLAME
06/16/1994 – 06/15/1998 FY97: $100,000 Total: $400,000
Prin. Invest.: J R HERTZBERG
Tech. Officer: LERC/H D ROSS
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1685 UNIVERSITY OF COLORADO – BOULDER **3116**
IGNITION AND COMBUSTION OF BULK METALS IN A MICROG RAVITY ENVIRONMENT
11/22/1994 – 11/21/1997 FY97: $118,721 Total: $345,474
Prin. Invest.: M C BRANCH
Tech. Officer: LERC/R FRIEDMAN, LERC/H D ROSS
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1846 UNIVERSITY OF COLORADO – BOULDER **3117**
STRUCTURE HYDRODYNAMICS AND PHASE TRANSITIONS OF F REELY SUSPENDED LIQUID CRYSTALS
05/02/1996 – 05/01/2000 FY97: $87,000 Total: $132,000
Prin. Invest.: N A CLARK
Tech. Officer: LERC/J S LING, LERC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 3 1848 UNIVERSITY OF COLORADO – BOULDER **3118**
WAVES IN RADIAL GRAVITY USING MAGNETIC FLUID
06/25/1996 – 06/24/2000 FY97: $50,000 Total: $135,000
Prin. Invest.: D R OHLSEN, J E HART, P D WEIDMAN
Tech. Officer: LERC/N R HALL
CASE Category: 11 – ASTRONOMY

NAG 3 1850 UNIVERSITY OF COLORADO – BOULDER **3119**
CELL AND PARTICLE INTERATIONS AND AGGREGATION DURI NG ELECTROPHORETIC MOTION
05/02/1996 – 08/31/2000 FY97: $50,000 Total: $125,000
Prin. Invest.: R H DAVIS
Tech. Officer: LERC/J S LING, LERC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 3 2071 UNIVERSITY OF COLORADO – BOULDER **3120**
MICROGRAVITY EXPERIMENT ON LOW VELOCITY IMPACTS
08/27/1997 – 08/31/1998 FY97: $44,005 Total: $44,005
Prin. Invest.: J E COLWELL
Tech. Officer: LERC/F J KOHL
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 698 UNIVERSITY OF COLORADO – BOULDER **3121**
ROCKET INVESTIGATION OF THE ROLE OF NITRIC OXIDE IN THE LOWER THERMOSPHERE
03/22/1993 – 01/31/1998 FY97: $0 Total: $590,388
Prin. Invest.: C A BARTH
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 1853 UNIVERSITY OF COLORADO – BOULDER **3122**
GODDARD HIGH RESOLUTION SPECTROGRAPH (GHRS) INCLUD ING ACTIVITIES AS A GHRS GUARANTEED TIME OBSERV.
01/02/1992 – 11/14/1997 FY97: $346,000 Total: $2,320,952
Prin. Invest.: J C BRANDT
Tech. Officer: GSFC/A SMITH
CASE Category: 11 – ASTRONOMY

NAG 5 1908 UNIVERSITY OF COLORADO – BOULDER **3123**
APPLICATION OF GPS TO CRUSTAL DEFORMATION STUDIES IN CALIFORNIA
02/20/1992 – 10/14/1997 FY97: $0 Total: $247,000
Prin. Invest.: K LARSON
Tech. Officer: GSFC/B G BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 2026 UNIVERSITY OF COLORADO – BOULDER **3124**
MODELING THE GAMMA-RAY SPECTRA OF ACTIVE GALACTIC NUCLEI
07/08/1992 – 09/30/1997 FY97: $0 Total: $136,925
Prin. Invest.: M C BEGELMAN
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2122 UNIVERSITY OF COLORADO – BOULDER **3125**
INTRINSIC C IV ABSORPTION IN PG–QSOS AND SEYFERT G ALAXIES
10/28/1992 – 03/31/1997 FY97: $0 Total: $23,000
Prin. Invest.: J M SHULL
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2256 UNIVERSITY OF COLORADO – BOULDER **3126**
GLOBAL–SCALE TURBULENT SOLAR CONVECTION COUPLED TO ROTATION AND MAGNETIC FIELDS
04/27/1993 – 04/30/1997 FY97: $250,000 Total: $1,155,000
Prin. Invest.: J TOOMRE
Tech. Officer: GSFC/T J BIRMINGHAM, GSFC/J D BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 2259 UNIVERSITY OF COLORADO – BOULDER **3127**
CONTEMPORANEOUS EUVE AND GHRS OBSERVATIONS OF THE OUTER ATMOSPHERIC STRUCTURE OF RS CVN
04/30/1993 – 04/30/1998 FY97: $0 Total: $144,037
Prin. Invest.: A BROWN
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 2287 UNIVERSITY OF COLORADO – BOULDER **3128**
RELATIONSHIP BETWEEN NON–METHANE HYDROCARBON EMISS ION AND LEAF CARBON BALANCE INTHE BOREAL FOREST.
06/14/1993 – 06/14/1998 FY97: $0 Total: $212,600
Prin. Invest.: R K MONSON
Tech. Officer: GSFC/F G HALL, GSFC/P SELLERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2353 UNIVERSITY OF COLORADO – BOULDER **3129**
THE ROLE OF FAULT SEGMENTATION IN EARTHQUAKE DYNAM ICS WITH APPLICATION TO STRIKEFAULTS IN CALIF.
08/12/1993 – 08/14/1997 FY97: $0 Total: $258,000
Prin. Invest.: J B RUNDLE
Tech. Officer: GSFC/B G BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 2470 UNIVERSITY OF COLORADO – BOULDER **3130**
A STUDY OF RADIO CONTINUUM LOOP I ABSORPTION NEAR THE 3C273 SIGHT LINE
01/04/1994 – 01/14/1996 FY97: $0 Total: $2,500
Prin. Invest.: G S BURKS
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2530 UNIVERSITY OF COLORADO – BOULDER **3131**
CORONAL TEMPERATURE AND EMISSION MEASURE DISTRIBUT IONS FOR ACTIVE SUPERGIANT BETA DRA
02/24/1994 – 03/14/1998 FY97: $0 Total: $80,000
Prin. Invest.: A BROWN
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2577 UNIVERSITY OF COLORADO – BOULDER **3132**
EOSDIS VO IMS TIREKICKER ACTIVITIES AND SYSTEM PRO TOTYPING
04/21/1994 – 08/31/1998 FY97: $127,429 Total: $830,429
Prin. Invest.: W J EMERY
Tech. Officer: GSFC/K R MCDONALD
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2633 UNIVERSITY OF COLORADO – BOULDER **3133**
SOLAR TERRESTRIAL ENERGY PROGRAM (STEP) SCIENTIST COORDINATOR
06/28/1994 – 02/28/1997 FY97: $0 Total: $85,000
Prin. Invest.: D N BAKER
Tech. Officer: GSFC/J A SLAVIN
CASE Category: 11 – ASTRONOMY

NAG 5 2671 UNIVERSITY OF COLORADO – BOULDER **3134**
THE IMPACT OF PRECIPITATION ON THE TROPICAL OCEAN: APPLICATION TO TRMM
08/09/1994 – 08/14/1997 FY97: $0 Total: $269,728
Prin. Invest.: P J WEBSTER, J A CURRY
Tech. Officer: GSFC/W CHAO
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2681 UNIVERSITY OF COLORADO – BOULDER **3135**
SAMPEX DATA ANALYSIS
08/08/1994 – 02/28/1998 FY97: $135,000 Total: $427,186
Prin. Invest.: D N BAKER
Tech. Officer: GSFC/J A SLAVIN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2750 UNIVERSITY OF COLORADO – BOULDER **3136**
1)THE DYNAMIC CORONAE OF ACTIVE DME STARS; 2)THE MYTH OF TWO–TEMPERATURE OF CORONAE ACTIVE STARTS
10/05/1994 – 04/14/1997 FY97: $269 Total: $48,269
Prin. Invest.: J LINSKY
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2753 UNIVERSITY OF COLORADO – BOULDER **3137**
UNDERSTANDING THE LATITUDE STRUCTURE OF NITRIC OXIDE IN THE MESOSPHERE AND LOWER THERMOSPHERE
10/14/1994 – 10/14/1997 FY97: $83,661 Total: $238,833
Prin. Invest.: T J FULLER–ROWELL
Tech. Officer: GSFC/C H JACKMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2786 UNIVERSITY OF COLORADO – BOULDER **3138**
STUDIES OF TIDAL AND PLANETARY WAVE VARIABILITY IN THE MIDDLE ATMOSPHERE USING UARS AND CORRELATIVE
11/14/1994 – 11/14/1997 FY97: $54,000 Total: $156,000
Prin. Invest.: D C FRITTS
Tech. Officer: GSFC/C H JACKMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2797 UNIVERSITY OF COLORADO – BOULDER **3139**
DYNAMICS OF LARGE SCALE STRUCTURE FROM REDSHIFT SP ACE
11/18/1994 – 11/30/1997 FY97: $45,000 Total: $135,000
Prin. Invest.: A J HAMILTON
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2828 UNIVERSITY OF COLORADO – BOULDER **3140**
ASTEROSEISMOLOGY OF WHITE DWARF STARS
12/07/1994 – 12/14/1997 FY97: $0 Total: $54,486
Prin. Invest.: C HANSEN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2891 UNIVERSITY OF COLORADO – BOULDER **3141**
DEBUNKING THE MYTH OF TWO-TEMPERATURE CORONAE FOR RS CVN SYSTEMS USING CONTEMPRANEOUS HIGH
02/17/1995 – 08/31/1998 FY97: $19,548 Total: $86,200
Prin. Invest.: J L LINSKY
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 2977 UNIVERSITY OF COLORADO – BOULDER **3142**
ABSOLUTE GRAVITY/GPS MEASUREMENTS IN GREENLAND
06/16/1995 – 06/30/1998 FY97: $38,627 Total: $132,769
Prin. Invest.: J WAHR, K LARSON
Tech. Officer: GSFC/H J ZWALLY
CASE Category: 11 – ASTRONOMY

NAG 5 3006 UNIVERSITY OF COLORADO – BOULDER **3143**
UV SPECTRA OF ACTIVE GALAXIES FORMATION AND GALAXY EVOLUTION
07/14/1995 – 07/31/1997 FY97: $0 Total: $95,057
Prin. Invest.: J W SHULL
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3007 UNIVERSITY OF COLORADO – BOULDER **3144**
SYSTEMATIC ANALYSIS OF COOL STELLAR WINDS EXTRACT- ING THE COSMOLOGICAL PARAMETERS
07/26/1995 – 07/31/1997 FY97: $0 Total: $47,568
Prin. Invest.: J L LINSKY
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3032 UNIVERSITY OF COLORADO – BOULDER **3145**
DO WE NEED REALISTIC MODELING OF COMPOSITE INTERSTELLAR DUST GRAINS
10/02/1995 – 10/14/1996 FY97: $0 Total: $74,000
Prin. Invest.: G C CLAYTON
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3033 UNIVERSITY OF COLORADO – BOULDER **3146**
REALISTIC YET PRACTICAL NLTE RADIATIVE TRANSFER FOR MODELING STELLAR WINDS
10/02/1995 – 10/14/1997 FY97: $0 Total: $62,300
Prin. Invest.: P D BENNETT
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3038 UNIVERSITY OF COLORADO – BOULDER **3147**
GROUND-BASED SOLAR OBSERVATIONS IN SUPPORT OF SOHO
07/31/1995 – 08/14/1997 FY97: $0 Total: $70,000
Prin. Invest.: A KIPLINGER
Tech. Officer: GSFC/A I POLAND
CASE Category: 11 – ASTRONOMY

NAG 5 3054 UNIVERSITY OF COLORADO – BOULDER **3148**
AIRBORNE LASER ALTIMETRIC MONITORING OF THE RAPID EVOLUTION OF TOPOGRAPHY IN THE LONG VALLEY, CA CAL
08/21/1995 – 08/31/1997 FY97: $0 Total: $60,000
Prin. Invest.: J B RUNDLE
Tech. Officer: GSFC/H V FREY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 3072 UNIVERSITY OF COLORADO – BOULDER **3149**
FRACTURE MORPHOLOGY AND NEOTECTONICS OF THE AFAR DEPRES- SION
09/25/1995 – 09/30/1997 FY97: $13,000 Total: $26,180
Prin. Invest.: R BILHAM
Tech. Officer: GSFC/D J HARDING
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3133 UNIVERSITY OF COLORADO – BOULDER **3150**
THE IMPACT OF SN1987A WITH ITS CIRCUMSTELLAR RING
10/24/1995 – 10/31/1997 FY97: $101,000 Total: $303,000
Prin. Invest.: R A MCCRAY
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3143 UNIVERSITY OF COLORADO – BOULDER **3151**
TEMPORAL VARIATIONS OF THE GEOPOTENTIAL
11/09/1995 – 11/14/1997 FY97: $75,000 Total: $225,000
Prin. Invest.: J WAHR
Tech. Officer: GSFC/P T TAYLOR
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3152 UNIVERSITY OF COLORADO – BOULDER **3152**
CHARACTERIZING AND QUANTIFYING THE X-RAY VARIABLE SKY: FROM ROSAT TO XTE AND BEYOND
02/13/1996 – 06/30/1998 FY97: $0 Total: $53,641
Prin. Invest.: G S STRINGFELLOW
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3153 UNIVERSITY OF COLORADO – BOULDER **3153**
QUIESCENT CORONAL STRUCTURE AND VARIABILITY AT THE BOTTOM OF THE MAIN SEQUENCE: THE SINGLE STAR CN.
02/06/1996 – 09/30/1998 FY97: $0 Total: $20,000
Prin. Invest.: G STRINGFELLOW
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3161 UNIVERSITY OF COLORADO – BOULDER **3154**
X-RAY SPECTRA OF DISTANT GALAXY CLUSTER
02/26/1996 – 04/14/1997 FY97: $0 Total: $818
Prin. Invest.: E ELLINGSON
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3162 UNIVERSITY OF COLORADO – BOULDER **3155**
GALAXY CLUSTER MASSES AT MODERATE REDSHIFT
02/12/1996 – 09/30/1996 FY97: $0 Total: $10,868
Prin. Invest.: E ELLINGSON
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3179 UNIVERSITY OF COLORADO – BOULDER **3156**
A STUDY OF THE UPPER ATMOSPHERIC RESPONSE TO VARIA TIONS IN SOLAR ULTRAVIOLET IRRADIANCE
03/11/1996 – 03/31/1998 FY97: $68,379 Total: $170,865
Prin. Invest.: J LONDON
Tech. Officer: GSFC/C H JACKMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3190 UNIVERSITY OF COLORADO – BOULDER **3157**
GAPPERS AND CLUMPERS CONTINUED
03/29/1996 – 03/31/1997 FY97: $0 Total: $39,999
Prin. Invest.: T R AYRES
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 3194 UNIVERSITY OF COLORADO – BOULDER **3158**
SUPPORT FOR ARCHIVING STANDARDS ACTIVITIES
04/12/1996 – 04/14/1997 FY97: $15,765 Total: $27,399
Prin. Invest.: R DAVIS
Tech. Officer: GSFC/D SAWYER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 3224 UNIVERSITY OF COLORADO – BOULDER **3159**
X-RAY EMISSION FROM PRE-MAIN SEQUENCE STARS-TEST- ING THE SOLAR ANALOGY
05/07/1996 – 05/14/1998 FY97: $82,676 Total: $160,976
Prin. Invest.: S L SKINNER
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3225 UNIVERSITY OF COLORADO – BOULDER **3160**
SPECTRAL AND TEMPORAL PROPERTIES OF BLACK HOLE CANDIDATES
05/07/1996 – 04/30/1997 FY97: $0 Total: $70,000
Prin. Invest.: M A NOWAK
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3226 UNIVERSITY OF COLORADO – BOULDER **3161**
THE FUNDAMENTAL PHYSICAL PROCESSES PRODUCING AND CONTROL-LING STELLAR CORONAL/TRANSITION
05/07/1996 – 04/30/1997 FY97: $0 Total: $130,000
Prin. Invest.: T A AYRES
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3227 UNIVERSITY OF COLORADO – BOULDER **3162**
INFRARED LINE EMISSION FROM MOLECULAR GAS HEATED BY X-RAYS AND ENERGETIC ELECTRONS
05/08/1996 – 04/30/1997 FY97: $84,000 Total: $165,000
Prin. Invest.: P R MALONEY
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3303 UNIVERSITY OF COLORADO – BOULDER **3163**
REALISTIC YET PRACTICAL, NLTE RADIATIVE TRANSFER FOR MODELING STELLAR WINDS
10/02/1995 – 10/14/1996 FY97: $0 Total: $5,994
Prin. Invest.: W P WINN
Tech. Officer: GSFC/J A NUTH, GSFC/J E ALLEN
CASE Category: 13 – PHYSICS

NAG 5 3310 UNIVERSITY OF COLORADO – BOULDER **3164**
X-RAY VARIABILITY CONSTRAINTS ON COMPTON CLOUD MOD ELS OF CYGNUS X-1
07/24/1996 – 02/14/1998 FY97: $0 Total: $13,842
Prin. Invest.: M A NOWAK
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3320 UNIVERSITY OF COLORADO – BOULDER **3165**
LASER ALTIMETRY OF FOLDS CAUSED BY LARGE EARTHQUAK ES
07/30/1996 – 08/14/1997 FY97: $0 Total: $20,000
Prin. Invest.: K MUELLER
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3327 UNIVERSITY OF COLORADO – BOULDER **3166**
HERTZSPRUNG-GAP CORONAE: HOW HAT AND VARIABLE?
07/30/1996 – 01/31/1998 FY97: $0 Total: $29,116
Prin. Invest.: T AYRES
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3382 UNIVERSITY OF COLORADO – BOULDER **3167**
HOW HOT – AND VARIABLE – ARE THE CORONAE OF HERTZS PRUNG-GAP GIANTS?
08/30/1996 – 02/28/1998 FY97: $15,000 Total: $15,000
Prin. Invest.: T AYERS
Tech. Officer: GSFC/J SWANK
CASE Category: 12 – CHEMISTRY

NAG 5 3383 UNIVERSITY OF COLORADO – BOULDER **3168**
PROBING CORONAL FLARE ENERGETICS: XTE OBSERVATIONS OF NEARBY FLARE STARS
08/30/1996 – 02/28/1998 FY97: $21,025 Total: $21,025
Prin. Invest.: J LINSKY
Tech. Officer: GSFC/J SWANK
CASE Category: 12 – CHEMISTRY

NAG 5 3394 UNIVERSITY OF COLORADO – BOULDER **3169**
CHARACTERIZING AND QUANTIFYING THE X-RAY VARIABLE SKY
09/06/1996 – 09/14/1997 FY97: $0 Total: $65,789
Prin. Invest.: G S STRINGFELLOW
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3421 UNIVERSITY OF COLORADO – BOULDER **3170**
A SEARCH FOR CORONAL EMISSION IN THE LOWEST MASS S TARS AND ROTATIONAL-ACTIVITY RELATE
09/15/1996 – 09/14/1997 FY97: $0 Total: $27,227
Prin. Invest.: G S STRINGFELLOW
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 3437 UNIVERSITY OF COLORADO – BOULDER **3171**
LAND AND LAND-USE CHANGE IN THE CLIMATE SENSITIVE HIGH PLAINS: AN AUTOMATED APPROACH WITH LANDSAT
10/07/1996 – 10/31/1997 FY97: $244,148 Total: $244,148
Prin. Invest.: A GOETZ
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3438 UNIVERSITY OF COLORADO – BOULDER **3172**
ENHANCED ANTARCTIC RESEARCH WITH LANDSAT: ICE SHEE T DYNAM-ICS, HISTORY AND CARTOGRAPHY
10/07/1996 – 10/31/1997 FY97: $87,409 Total: $87,409
Prin. Invest.: T SCAMBOS
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3514 UNIVERSITY OF COLORADO – BOULDER **3173**
LEARNING ABOUTJET PHYSICS FROM GAMMA-RAY BLAZARS
11/13/1996 – 11/14/1997 FY97: $20,000 Total: $20,000
Prin. Invest.: M C BEGELMAN
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3543 UNIVERSITY OF COLORADO – BOULDER **3174**
PULSATION, SHOCKS, MARS LOSS AND DUST: ATMOSPHERE S OF LONG PERIOD VARIABLES
11/27/1996 – 06/30/1997 FY97: $103,400 Total: $103,400
Prin. Invest.: J BALLY
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3708 UNIVERSITY OF COLORADO – BOULDER **3175**
MICROGRAVITY EXPERIMENT ON LOW VELOCITY IMPACTS
12/05/1996 – 07/31/1997 FY97: $68,000 Total: $68,000
Prin. Invest.: J COLWELL
Tech. Officer: GSFC/B CARPENTER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 3763 UNIVERSITY OF COLORADO – BOULDER **3176**
REMOTE SENSING OF PLANETARY SURFACES
02/21/1997 – 10/31/1997 FY97: $41,000 Total: $41,000
Prin. Invest.: B M JAKOSKY
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3794 UNIVERSITY OF COLORADO – BOULDER **3177**
LIQUID CRYSTAL FOCAL-PLANE SHUTTERS
03/25/1997 – 02/28/1998 FY97: $23,441 Total: $23,441
Prin. Invest.: P T STOCKE
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 3847 UNIVERSITY OF COLORADO – BOULDER **3178**
MAPPING RICE PRODUCTION IN CHINA WITH AVHRR IMAGER
01/30/1997 – 01/31/1998 FY97: $110,171 Total: $110,171
Prin. Invest.: W EMERY
Tech. Officer: GSFC/A J TUYAHOV
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3848 UNIVERSITY OF COLORADO – BOULDER **3179**
COLLABORATIVE RESEARCH: SCALING THEORIES OF THE 3- OF RIVER NETWORKS
02/07/1997 – 09/30/1998 FY97: $152,000 Total: $152,000
Prin. Invest.: V K GUPTA
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3949 UNIVERSITY OF COLORADO – BOULDER **3180**
LOWER IONOSPHERE THERMOSPHERE EXPLORER
02/21/1997 – 02/14/1999 FY97: $199,777 Total: $199,777
Prin. Invest.: D C SOLOMON
Tech. Officer: GSFC/R HOWARD
CASE Category: 13 – PHYSICS

NAG 5 3967 UNIVERSITY OF COLORADO – BOULDER **3181**
INTEGRATED ANALYSIS OF COLUMELLA CELL STRUCTURE AN
03/03/1997 – 02/28/1998 FY97: $128,202 Total: $128,202
Prin. Invest.: A STAEHELIN
Tech. Officer: GSFC/T SCOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 3981 UNIVERSITY OF COLORADO – BOULDER **3182**
THE VALIDATION AND APPLICATION OF SEA SURFACE TEMP FROM SPACE
03/03/1997 – 04/30/1998 FY97: $129,000 Total: $129,000
Prin. Invest.: D EMERY
Tech. Officer: GSFC/B DOUGLAS
CASE Category: 33 – OCEANOGRAPHY

NAG 5 3997 UNIVERSITY OF COLORADO – BOULDER **3183**
WAVELET-BASED INTERPOLATION AND REPRESENTATION OF SPACE-CRAFT MISSION DATA
03/13/1997 – 02/28/1998 FY97: $65,000 Total: $65,000
Prin. Invest.: D M ETTER
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 4061 UNIVERSITY OF COLORADO – BOULDER **3184**
WARPING AND PRECESSION OF ACCRETION DISKS IN XRAY
03/18/1997 – 03/31/1998 FY97: $87,000 Total: $87,000
Prin. Invest.: M C BEGELMAN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4063 UNIVERSITY OF COLORADO – BOULDER **3185**
ASTROPHYSICS AT THE DISK-HALO INTERFACE
03/18/1997 – 03/31/1998 FY97: $93,300 Total: $93,300
Prin. Invest.: M J SHULL
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4095 UNIVERSITY OF COLORADO – BOULDER **3186**
EVENT RATE FOR LISA GRAVITATIONAL WAVE SIGNALS FRO BLACK HOLE COALESCENCES
03/12/1997 – 12/31/1997 FY97: $30,400 Total: $30,400
Prin. Invest.: D L BENDER
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 4099 UNIVERSITY OF COLORADO – BOULDER **3187**
NONLINEAR WAVES AND PARTICLE HEATING IN THE AURORA
06/27/1997 – 05/31/1998 FY97: $75,000 Total: $75,000
Prin. Invest.: D GOLDMAN
Tech. Officer: GSFC/M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 4100 UNIVERSITY OF COLORADO – BOULDER **3188**
LAST YEAR OF FUNDING FOR USERC PROGRAM AT UNIV. FO TRUCTION (CONTINUATION OF NAGW-1388) FOR 6 STUDEN
03/11/1997 – 10/31/1997 FY97: $33,500 Total: $33,500
Prin. Invest.: R SU
Tech. Officer: GSFC/R AVANT
CASE Category: 99 – MULTI INTERDISCPL,OTHER

NAG 5 4119 UNIVERSITY OF COLORADO – BOULDER **3189**
GENERATION AND APPLICATION OF AVHRR–DERIVED ICE MO AND ANTARCTIC
03/03/1997 – 02/28/1998 FY97: $90,000 Total: $90,000
Prin. Invest.: D MASLANIK
Tech. Officer: GSFC/R H THOMAS
CASE Category: 11 – ASTRONOMY

NAG 5 4163 UNIVERSITY OF COLORADO – BOULDER **3190**
DYNAMICAL MODELS OF THE SOLAR SYSTEM FORMATION AND
03/26/1997 – 02/28/1998 FY97: $38,000 Total: $38,000
Prin. Invest.: D R STEWART
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4171 UNIVERSITY OF COLORADO – BOULDER **3191**
COLLABORATIVE RESEARCH: CLIMATE SENSITIVITY OF THAW LAKE SYSTEMS ON THE ALASKAN NORTH SLOPE
03/17/1997 – 03/14/1998 FY97: $48,999 Total: $48,999
Prin. Invest.: D ZHANG
Tech. Officer: GSFC/R H THOMAS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4179 UNIVERSITY OF COLORADO – BOULDER **3192**
VARIABLE ICE–SHEET DISCHARGE AND COASTAL CHANGE IN WEST ANTARCICA
03/19/1997 – 12/31/1997 FY97: $13,158 Total: $13,158
Prin. Invest.: T SCAMBOS
Tech. Officer: GSFC/R H THOMAS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4183 UNIVERSITY OF COLORADO – BOULDER **3193**
STUDIES OF SOLAR FLARE AND INTERPLANETARY PARTICLE DINATION OF GROUND–BASED SOLAROBSERVATIONS IN SU
03/17/1997 – 01/31/1998 FY97: $56,000 Total: $56,000
Prin. Invest.: D KIPLINGER
Tech. Officer: GSFC/W WAGNER
CASE Category: 13 – PHYSICS

NAG 5 4184 UNIVERSITY OF COLORADO – BOULDER **3194**
LABORATORY STUDIES OF THE VISIBLE SPECTROSCOPY & C IN THE GAS PHASE
03/17/1997 – 12/31/1997 FY97: $80,000 Total: $80,000
Prin. Invest.: D P SNOW
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 4218 UNIVERSITY OF COLORADO – BOULDER **3195**
SEA ICE AND OCEAN PROCESSES IN BAFFIN BAY: A STUD DATA AND NUMERICAL MODELING
04/15/1997 – 12/31/1997 FY97: $89,430 Total: $89,430
Prin. Invest.: D STEFFEN
Tech. Officer: GSFC/R H THOMAS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4248 UNIVERSITY OF COLORADO – BOULDER **3196**
GREENLAND ICE SHEET CLIMATOLOGY AND SURFACE ENERGY GREENLAND CLIMATE NETWORK (GCNET)
03/26/1997 – 03/31/1998 FY97: $255,059 Total: $255,059
Prin. Invest.: D STEFFEN
Tech. Officer: GSFC/R THOMAS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4263 UNIVERSITY OF COLORADO – BOULDER **3197**
SIMULATION AND THEORY OF THE FARLEY–BUNEMAN INSTAB IONOSPHERE
04/07/1997 – 04/14/1998 FY97: $69,807 Total: $69,807
Prin. Invest.: D OPPENHEIM
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 4312 UNIVERSITY OF COLORADO – BOULDER **3198**
ORIGINS CONFERENCE–1997
04/18/1997 – 12/31/1997 FY97: $20,000 Total: $20,000
Prin. Invest.: D M SHULL
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 4314 UNIVERSITY OF COLORADO – BOULDER **3199**
LABORATORY STUDIES OF LOW TEMPERATURE RATE COEFFIC CHEMISTRY OF THE OUTER PLANETS
04/16/1997 – 12/31/1997 FY97: $187,084 Total: $187,084
Prin. Invest.: D R LEONE
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4343 UNIVERSITY OF COLORADO – BOULDER **3200**
DUST PLASMA INTERACTION
04/17/1997 – 05/14/1998 FY97: $76,300 Total: $76,300
Prin. Invest.: D HORANYI
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 4422 UNIVERSITY OF COLORADO – BOULDER **3201**
CORDINATED XTE OBSERVATIONS OF CORONAL STRUCTURE A CVN BINARY SIGMA CRB
05/06/1997 – 04/30/1998 FY97: $15,305 Total: $15,305
Prin. Invest.: A BROWN
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4440 UNIVERSITY OF COLORADO – BOULDER **3202**
RADARSAT ANTARACTIC MAPPING PROJECT
05/13/1997 – 06/30/1998 FY97: $8,319 Total: $8,319
Prin. Invest.: R G BARRY
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4446 UNIVERSITY OF COLORADO – BOULDER **3203**
THE DIURNAL CYCLE OF CONVECTION AND ITS INTERACTIO CIRCULATION
04/28/1997 – 06/30/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: D ; SALBY
Tech. Officer: GSFC/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4447 UNIVERSITY OF COLORADO – BOULDER **3204**
UNDERSTANDING VARIABILITY IN THE AVIRIS–DERIVED PA VEGETATION CANOPIES
04/25/1997 – 05/31/1998 FY97: $172,577 Total: $172,577
Prin. Invest.: A GOETZ
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4459 UNIVERSITY OF COLORADO – BOULDER **3205**
FORMATION OF THE MOON FROM AN IMPACT GENERATED DEB
06/27/1997 – 03/31/1998 FY97: $53,000 Total: $53,000
Prin. Invest.: D CANUP
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4467 UNIVERSITY OF COLORADO – BOULDER **3206**
NATURAL OSCILLATIONS OF THE THERMOSPHERE–IONOSPHER
05/27/1997 – 04/30/1998 FY97: $66,631 Total: $66,631
Prin. Invest.: P FORBES
Tech. Officer: GSFC/M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 4477 UNIVERSITY OF COLORADO – BOULDER **3207**
SOFT X–RAY, OPTICAL–POLARMETRIC,SOONSPOT AND MICRO NTERPLANETARY PROTON ASSOCIATED FLARES AND ACTIVE
06/02/1997 – 05/31/1998 FY97: $63,417 Total: $63,417
Prin. Invest.: D KIPLINGER
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NAG 5 4506 UNIVERSITY OF COLORADO – BOULDER **3208**
PROPOSAL FOR COLLABORATION ON THE DEVELOPMENT AND AMSR SNOW WATER EQUIVALENT ALGORITHM
05/07/1997 – 04/30/1998 FY97: $51,604 Total: $51,604
Prin. Invest.: R L ARMSTRONG
Tech. Officer: GSFC/A T CHANG
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4518 UNIVERSITY OF COLORADO – BOULDER **3209**
THE NATURE OF "PASSIVE" ELLIPTICAL GALAXIES; A SEA LUMINOSITY BL LACERTAE OBJECTS; VARIABILITY OF BL
07/03/1997 – 06/30/1998 FY97: $14,600 Total: $14,600
Prin. Invest.: J T STOCKE
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 4526 UNIVERSITY OF COLORADO – BOULDER **3210**
CHARGED PARTICULATES IN THE POLAR MESOSPHERE/INSTR
05/07/1997 – 05/31/1998 FY97: $75,000 Total: $75,000
Prin. Invest.: D ROBERTSON
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 4530 UNIVERSITY OF COLORADO – BOULDER **3211**
EVOLUTION OF BIOGENIC ELEMENTS ON MARS
05/09/1997 – 03/31/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: D M JAKOSKY
Tech. Officer: GSFC/M MEYER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4535 UNIVERSITY OF COLORADO – BOULDER **3212**
SUPPORT FOR THE SYMPOSIUM ON SOLAR TERRESTRIAL
05/06/1997 – 07/14/1997 FY97: $5,000 Total: $5,000
Prin. Invest.: D N BAKER
Tech. Officer: GSFC/J D BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 4580 UNIVERSITY OF COLORADO – BOULDER **3213**
A LOW COST MERCURY ORBITER MISSION
05/13/1997 – 03/31/1999 FY97: $41,000 Total: $41,000
Prin. Invest.: P N BAKER
Tech. Officer: GSFC/R HOWARD
CASE Category: 13 – PHYSICS

NAG 5 4615 UNIVERSITY OF COLORADO – BOULDER **3214**
SATELLITE ATMOSPHERE AND IO TORUS OBSERVATIONS
05/20/1997 – 05/14/1998 FY97: $70,000 Total: $70,000
Prin. Invest.: D M SCHNEIDER
Tech. Officer: GSFC/W HUEBNER
CASE Category: 11 – ASTRONOMY

NAG 5 4700 UNIVERSITY OF COLORADO – BOULDER **3215**
CHONDRULE FORMATION DUST GAS PLASMA INTERACTIONS
06/11/1997 – 05/31/1998 FY97: $25,000 Total: $25,000
Prin. Invest.: D HORANYI
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4731 UNIVERSITY OF COLORADO – BOULDER **3216**
SPECTRAL AND DYNAMICAL SIGNATURES OF BLACK HOLE HI
06/04/1997 – 05/31/1998 FY97: $20,442 Total: $20,442
Prin. Invest.: M BEGELMAN
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4735 UNIVERSITY OF COLORADO – BOULDER **3217**
ACTIVITY ON THE EDGE OF CONVECTION: THE ATMOSPHERE $17,478 AND LINKING THE IMPULSIVE AND GRADUAL PHA
06/04/1997 – 06/14/1998 FY97: $32,904 Total: $32,904
Prin. Invest.: A BROWN
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 4737 UNIVERSITY OF COLORADO – BOULDER **3218**
LONG TERM MONITORING OF THE UNIQUE BLACK HOLE CAND
06/04/1997 – 06/14/1998 FY97: $13,263 Total: $13,263
Prin. Invest.: M BEGELMAN
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4781 UNIVERSITY OF COLORADO – BOULDER **3219**
GALAXY CLUSTERS AT INTERMEDIATE REDSHIFTS
06/20/1997 – 06/30/1998 FY97: $8,900 Total: $8,900
Prin. Invest.: E ELLINGSON
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 4782 UNIVERSITY OF COLORADO – BOULDER **3220**
THE CORONA OF THE REMARKABLE HERTZSPRUNG–GAP GIANT
06/20/1997 – 06/30/1998 FY97: $19,000 Total: $19,000
Prin. Invest.: T R AYERS
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 4783 UNIVERSITY OF COLORADO – BOULDER **3221**
COORDINATED ASCA OBSERVATIONS OF CORONAL STRUCTURE CVN BINARY SIGMA CRB
06/20/1997 – 06/30/1998 FY97: $17,800 Total: $17,800
Prin. Invest.: A BROWN
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 4784 UNIVERSITY OF COLORADO – BOULDER **3222**
X–RAY EMISSION FROM PROTOSTELLAR JETS
06/18/1997 – 06/30/1998 FY97: $5,100 Total: $5,100
Prin. Invest.: J MORSE
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 4786 UNIVERSITY OF COLORADO – BOULDER **3223**
A SEARCH FOR CORONAL EMISSION AT THE BOTTOM OF THE
06/23/1997 – 06/30/1998 FY97: $4,600 Total: $4,600
Prin. Invest.: G S STRINGFELLOW
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 4804 UNIVERSITY OF COLORADO – BOULDER **3224**
A UNIFIED ANALYSIS OF NON–RADIATIVE HEATING AND WI
07/30/1997 – 07/31/1998 FY97: $78,300 Total: $78,300
Prin. Invest.: G HARPER
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4896 UNIVERSITY OF COLORADO – BOULDER **3225**
ANALYZING THE LOSS, ENERGIZATION, AND TRANSPORT OF IN THE MAGNETOSPHERE
06/24/1997 – 07/14/1998 FY97: $78,000 Total: $78,000
Prin. Invest.: D LI
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 4901 UNIVERSITY OF COLORADO – BOULDER **3226**
DOCUMENTING, UNDERSTANDING, AND PREDICTING THE AGG RADIATION FLUX FOR SHEBA
06/19/1997 – 06/14/1998 FY97: $84,507 Total: $84,507
Prin. Invest.: D CURRY
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4906 UNIVERSITY OF COLORADO – BOULDER **3227**
GENERATION AT LEVEL 3 SSMR AND SSM/1 BRIGHTNESS TE PERIOD 1978 – 1998
06/19/1997 – 06/30/1998 FY97: $150,001 Total: $150,001
Prin. Invest.: D ARMSTONG
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4907 UNIVERSITY OF COLORADO – BOULDER **3228**
POLAR–WIDE GEOPHYSICAL PRODUCTS DERIVED FROM AVHRR
06/20/1997 – 06/30/1998 FY97: $143,175 Total: $143,175
Prin. Invest.: D MASLANIK
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4918 UNIVERSITY OF COLORADO – BOULDER **3229**
PENETRATIVE DYNAMICS OF THE SOLAR INTERIOR
07/07/1997 – 05/31/1998 FY97: $94,954 Total: $94,954
Prin. Invest.: D JULIEN
Tech. Officer: GSFC/W G WAGNER
CASE Category: 13 – PHYSICS

NAG 5 4932 UNIVERSITY OF COLORADO – BOULDER **3230**
A COMPREHENSIVE ANALYSIS OF IO'S ATMOSPEHRE AND TO
06/26/1997 – 06/30/1998 FY97: $45,000 Total: $45,000
Prin. Invest.: D M SCHNEIDER
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4982 UNIVERSITY OF COLORADO – BOULDER **3231**
INVESTIGATION INTO THE PROPERTIES AND EVOLUTION OF OUDS OF VENUS
08/04/1997 – 07/14/1998 FY97: $70,000 Total: $70,000
Prin. Invest.: D GRINSPOON
Tech. Officer: GSFC/S HOWARD
CASE Category: 13 – PHYSICS

NAG 5 5020 UNIVERSITY OF COLORADO – BOULDER **3232**
HIGH RESOLUTION X–RAY SPECTROSCOPY FROM SOUNDING ROCKETS
03/11/1994 – 10/31/1997 FY97: $387,687 Total: $917,705
Prin. Invest.: W C CASH
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 5021 UNIVERSITY OF COLORADO – BOULDER **3233**
SOLAR IRRADIANCE AND THERMOSPHERIC AIRGLOW ROCKET EXPERIMENTS
04/04/1994 – 05/31/1998 FY97: $0 Total: $190,001
Prin. Invest.: S C SOLOMON
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 5027 UNIVERSITY OF COLORADO – BOULDER **3234**
ENERGY TRANSFER IN THE THERMOSPHERE AND MESOSPHERE FUNDING FOR A ONE–YEAR EFFORT IN BASIC RESEARCH
03/03/1995 – 02/28/1998 FY97: $163,120 Total: $249,268
Prin. Invest.: S SOLOMON
Tech. Officer: GSFC/L EARLY
CASE Category: 13 – PHYSICS

NAG 5 5028 UNIVERSITY OF COLORADO – BOULDER **3235**
TIDES, PLANNETARY WAVES, AND EDDY FORCING OF THE MEAN MLT CIRCULATION FOR THE TIMED SCIENCE...
03/03/1995 – 02/28/1998 FY97: $239,995 Total: $346,341
Prin. Invest.: J FORBES
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 5029 UNIVERSITY OF COLORADO – BOULDER **3236**
A THEORETICAL & OBSERVATIONAL STUDY OF LARGE & SMALL SCALE DYNAMICS IN THE MESOSCALE & LOWER...
03/03/1995 – 12/31/1997 FY97: $45,000 Total: $135,000
Prin. Invest.: D FRITTS
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 – PHYSICS

NAG 5 5090 UNIVERSITY OF COLORADO – BOULDER **3237**
EUV AND FUV OBSERVATIONS OF HALE–BOPP
10/23/1996 – 10/31/1997 FY97: $35,183 Total: $35,183
Prin. Invest.: J C GREEN
Tech. Officer: GSFC/L W GURKIN
CASE Category: 13 – PHYSICS

NAG 5 5120 UNIVERSITY OF COLORADO – BOULDER **3238**
SOLAR EUV EXPERIMENT FOR THE NASA TIMED MISSION EXTENSION OF PHASE B
02/06/1997 – 02/10/1998 FY97: $120,000 Total: $120,000
Prin. Invest.: T N WOODS
Tech. Officer: GSFC/B J FLOWERS
CASE Category: 13 – PHYSICS

NAG 5 5141 UNIVERSITY OF COLORADO – BOULDER **3239**
AIRGLOW ROCKET
04/25/1997 – 03/31/1998 FY97: $55,000 Total: $55,000
Prin. Invest.: T WOODS
Tech. Officer: GSFC/W JOHNSON
CASE Category: 13 – PHYSICS

NAG 5 5168 UNIVERSITY OF COLORADO – BOULDER **3240**
ANALYSIS OF TIME DEPENDENT FAULT INTERACTIONS AND CALIFORNIA
07/17/1997 – 07/14/1998 FY97: $73,922 Total: $73,922
Prin. Invest.: J B RUNDLE
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 6006 UNIVERSITY OF COLORADO – BOULDER **3241**
3RD YR RENEWAL "MODELING, MONITORING AND FAULT DIA AIR CONTAMINANTS
07/23/1997 – 05/31/1998 FY97: $119,231 Total: $119,231
Prin. Invest.: W RAMIREZ
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 6048 UNIVERSITY OF COLORADO – BOULDER **3242**
LATE STAGES OF ACCRETION OF URANUS AND NEPTUNE
07/25/1997 – 06/30/1998 FY97: $29,570 Total: $29,570
Prin. Invest.: D STEWART
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 6051 UNIVERSITY OF COLORADO – BOULDER **3243**
ASSESSING FUTURE STABILITY OF US HIGH PLAINS LANDC PROCESS MODELING WITH LANDSAT IN SITU MODERN, AND
07/28/1997 – 12/31/1998 FY97: $270,000 Total: $270,000
Prin. Invest.: D OVERPECK
Tech. Officer: GSFC/A JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6114 UNIVERSITY OF COLORADO – BOULDER **3244**
GEOSTATISTICAL METHODS FOR DETERMINATION OF ROUGHN HANGES OF ANTARCTIC ICE STREAMS FROM SAR AND RADA
07/28/1997 – 04/30/1998 FY97: $70,000 Total: $70,000
Prin. Invest.: U HERZFELD
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6124 UNIVERSITY OF COLORADO – BOULDER **3245**
THE SOLAR–STELLAR CONNECTION
08/11/1997 – 07/31/1998 FY97: $40,500 Total: $40,500
Prin. Invest.: D R AYRES
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NAG 5 6133 UNIVERSITY OF COLORADO – BOULDER **3246**
DYNAMICAL AND CHEMICAL BEHAVIOR OF THE STRATOSPHER
08/11/1997 – 09/30/1998 FY97: $45,000 Total: $45,000
Prin. Invest.: D L SALBY
Tech. Officer: GSFC/J A KAYE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 6134 UNIVERSITY OF COLORADO – BOULDER **3247**
QUANTIFYING GRASSLAND–TO–WOODLAND TRANSITIONS AND CARBON AND NITROGEN DYNAMICS INTHE SOUTHWEST UNIT
09/08/1997 – 01/31/1999 FY97: $275,000 Total: $275,000
Prin. Invest.: D A WESSMAN
Tech. Officer: GSFC/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6138 UNIVERSITY OF COLORADO – BOULDER **3248**
LUNAR DUST: EROSION AND TRANSPORT
09/04/1997 – 08/31/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: D HORANDYI
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 6146 UNIVERSITY OF COLORADO – BOULDER **3249**
TO STUDY LAM POINTING REQUIRMENTS FOR THE GLAS SCI OBJECTIVES (HEK 7/7/97)
08/21/1997 – 08/31/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: G BORN
Tech. Officer: GSFC/G F SMITH
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 5 6147 UNIVERSITY OF COLORADO – BOULDER **3250**
VARIATIONS IN GPS TIME SERIES: A STUDY OF HYDROLO
08/21/1997 – 08/31/1998 FY97: $79,526 Total: $79,526
Prin. Invest.: K LARSON
Tech. Officer: GSFC/H FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 6162 UNIVERSITY OF COLORADO – BOULDER **3251**
EARTHWORKS EDUCATING TEACHERS IN EARTH SYSTEM SCIE
08/01/1997 – 07/31/1998 FY97: $18,332 Total: $18,332
Prin. Invest.: H SPETZLER
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6198 UNIVERSITY OF COLORADO – BOULDER **3252**
MODELING SUBSTORM DYNAMICS WITH A LOW-DIMENSIONAL E SPACE SYSTEM
08/20/1997 – 05/31/1998 FY97: $59,451 Total: $59,451
Prin. Invest.: D DOXAS, NONE
Tech. Officer: GSFC/J BOHLIIN
CASE Category: 13 – PHYSICS

NAG 5 6270 UNIVERSITY OF COLORADO – BOULDER **3253**
EVOLUTION AND ACTIVITY IN THE SOLAR CORONA: A COM CHRO-MOSPHERIC STRUCTURES SEENIN SOFT X-RAYS, WH
08/21/1997 – 05/31/1998 FY97: $78,368 Total: $78,368
Prin. Invest.: D BAGENAL
Tech. Officer: GSFC/W J WAGNER
CASE Category: 11 – ASTRONOMY

NAG 5 6371 UNIVERSITY OF COLORADO – BOULDER **3254**
SATELLITE REMOTE SENSING OF ECOSYSTEM STRUCTURAL A INTE-GRATING SPECTRAL MIXTURE ANALYSIS AND BRDF I
09/25/1997 – 07/31/1998 FY97: $115,000 Total: $115,000
Prin. Invest.: D A WESSMAN
Tech. Officer: GSFC/D WICKLAND
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 253 UNIVERSITY OF COLORADO – BOULDER **3255**
COHERENT LIDAR DESIGN AND PERFORMANCE VERIFICATION
11/13/1992 – 08/12/1996 FY97: $0 Total: $224,024
Prin. Invest.: R G FREHLICH
Tech. Officer: MSFC/M J KAVAVA, MSFC/W D JONES
CASE Category: 13 – PHYSICS

NAG 8 945 UNIVERSITY OF COLORADO – BOULDER **3256**
BIOLOGICAL PARTICLES RESEARCH
01/21/1993 – 01/31/1996 FY97: $0 Total: $336,000
Prin. Invest.: R H DAVIS, M LOEWENBERG, P TODD
Tech. Officer: MSFC/T Y MILLER
CASE Category: 43 – CHEMICAL ENGR

NAG 8 1048 UNIVERSITY OF COLORADO – BOULDER **3257**
ULTRAVIOLET EXTINCTION AND POLARIZATION OF INTER- STELLAR DUST IN THE LARGE MAGELLANIC CLOUD
03/15/1994 – 02/28/1997 FY97: -$23,656 Total: $127,642
Prin. Invest.: G C CLAYTON, J GREEN
Tech. Officer: MSFC/J OWEN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 1062 UNIVERSITY OF COLORADO – BOULDER **3258**
SOLUTOCAPILLARY CONVECTION EFFECTS ON POLYMERIC MEMBRANE MORPHOLOGY
06/23/1994 – 06/30/1996 FY97: -$3 Total: $104,997
Prin. Invest.: W B KRANTZ, P W TODD
Tech. Officer: MSFC/J P DOWNEY
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 8 1091 UNIVERSITY OF COLORADO – BOULDER **3259**
JOVE
09/12/1994 – 05/31/1996 FY97: $0 Total: $5,063
Prin. Invest.: T SNOW
Tech. Officer: MSFC/F SIX *Tech. Officer:* NONE
CASE Category: 11 – ASTRONOMY

NAG 8 1093 UNIVERSITY OF COLORADO – BOULDER **3260**
ANALYSIS OF USAF DEFENSE METEORLOGICAL SATELLITE PROGRAM DATA FOR GLOBAL LIGHTING
11/16/1994 – 11/15/1998 FY97: $49,283 Total: $213,284
Prin. Invest.: G S SCHARFEN
Tech. Officer: MSFC/S J GOODMAN, MSFC/H J CHRISTIAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 1135 UNIVERSITY OF COLORADO – BOULDER **3261**
CERAMIC MATRIX COMPOSITES STUDY
03/27/1995 – 09/29/1998 FY97: $114,182 Total: $227,760
Prin. Invest.: W ROGERS
Tech. Officer: MSFC/S STOYANOF
CASE Category: 49 – ENGINEERING, OTHER

NAG 8 1165 UNIVERSITY OF COLORADO – BOULDER **3262**
PREPARATION & ANALYSIS OF RNA CRYSTALS
09/22/1995 – 06/30/1998 FY97: $185,000 Total: $435,000
Prin. Invest.: P TODD, C KUNDROT, S SCHULTZ
Tech. Officer: GSFC/A D SHIELDS, GSFC/D C CARTER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 8 1306 UNIVERSITY OF COLORADO – BOULDER **3263**
COHERENT LIDAR DESIGN PERFORMANCE FOR SPACE MISSIONS
09/18/1996 – 09/16/1998 FY97: $65,264 Total: $128,350
Prin. Invest.: R G FREHLICH
Tech. Officer: MSFC/S C JOHNSON, MSFC/B F JONES
CASE Category: 13 – PHYSICS

NAG 8 1319 UNIVERSITY OF COLORADO – BOULDER **3264**
RESEARCH "TETHER PROPULSION & POWER FOR EXPLORATION"
01/31/1997 – 08/31/1997 FY97: $9,469 Total: $9,469
Prin. Invest.: F BAGENAL
Tech. Officer: MSFC/L JOHNSON
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 9 768 UNIVERSITY OF COLORADO – BOULDER **3265**
ORBITAL DEBRIS OPTICAL SIGNATURE TESTS
09/27/1994 – 10/01/1996 FY97: -$30 Total: $9,970
Prin. Invest.: R CULP
Tech. Officer: JSC/G CRESS
CASE Category: 43 – CHEMICAL ENGR

NAG 9 856 UNIVERSITY OF COLORADO – BOULDER **3266**
SUPPORT OF GPS ATTITUDE AND ANTENNA BASELINE ESTIM ATION FOR SPACE STATION ALPHA
11/09/1995 – 02/28/1998 FY97: $0 Total: $104,077
Prin. Invest.: D AXELRAD
Tech. Officer: JSC/P E SAUNDERS
CASE Category: 46 – MECHANICAL ENGR

NAG 9 868 UNIVERSITY OF COLORADO – BOULDER **3267**
BASIC RESEARCH IN ORBITAL DEBRIS DETECTION & ESTIM ATION
05/01/1996 – 10/31/1997 FY97: $0 Total: $10,000
Prin. Invest.: D D CULP
Tech. Officer: JSC/E STANSBERY
CASE Category: 11 – ASTRONOMY

NAGW 766 UNIVERSITY OF COLORADO – BOULDER **3268**
THEORY OF SPECTRA FORMATION IN ASTROPHYSICAL SYSTEMS
07/15/1985 – 09/30/1997 FY97: $0 Total: $2,594,600
Prin. Invest.: J M SCHULL
Tech. Officer: HQ/G C CLAYTON, HQ/A N BUNNER
CASE Category: 11 – ASTRONOMY

NAGW 771 UNIVERSITY OF COLORADO – BOULDER **3269**
REMOTE SENSING ANALYSIS OF MARS
06/01/1985 – 10/31/1996 FY97: $0 Total: $439,405
Prin. Invest.: B JAKOSKY
Tech. Officer: HQ/J R UNDERWOOD, HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1110 UNIVERSITY OF COLORADO – BOULDER **3270**
ALGORITHM VALIDATION FOR ALONG TRACK SCANNING RADIOMETER
06/01/1987 – 09/30/1997 FY97: $0 Total: $1,141,770
Prin. Invest.: W J EMERY
Tech. Officer: HQ/G S LAGERLOEF, HQ/W S WILSON
CASE Category: 33 – OCEANOGRAPHY

NAGW 1197 UNIVERSITY OF COLORADO – BOULDER **3271**
CENTER FOR THE COMMERCIAL DEVELOPMENT
10/14/1987 – 09/30/1997 FY97: $0 Total: $14,736,646
Prin. Invest.: M LUTTGES, J BERRYMAN
Tech. Officer: HQ/W A ORAN, HQ/A VILLAMIL
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 1387 UNIVERSITY OF COLORADO – BOULDER **3272**
EVOLUTION OF LARGE SCALE PLASMA STRUCTURES IN COMETS
08/04/1988 – 03/31/1997 FY97: $0 Total: $454,667
Prin. Invest.: J C BRANDT
Tech. Officer: HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NAGW 1388 UNIVERSITY OF COLORADO – BOULDER **3273**
CENTER FOR SPACE CONSTRUCTION
07/20/1988 – 09/30/1997 FY97: $0 Total: $10,190,042
Prin. Invest.: G W MORGANTHALER, S STURE
Tech. Officer: HQ/M S HIRSCHBEIN, HQ/S C HARTMAN
CASE Category: 49 – ENGINEERING, OTHER

NAGW 1462 UNIVERSITY OF COLORADO – BOULDER **3274**
MAX 91 COORDINATION & STUDIES OF SOLAR ACTIVITY
10/05/1988 – 03/31/1997 FY97: $0 Total: $449,639
Prin. Invest.: A L KIPLINGER
Tech. Officer: HQ/J D BOHLIN, HQ/S KANE
CASE Category: 13 – PHYSICS

NAGW 2158 UNIVERSITY OF COLORADO – BOULDER **3275**
NAGW-2158/UNIV OF COLORADO/APPLICATION OF MULTISPE CTRAL SATELLITE DATA IN POLAR SURFACE ENERGY FLUX
07/13/1990 – 09/30/1997 FY97: $0 Total: $1,199,620
Prin. Invest.: K STEFFEN
Tech. Officer: HQ/R H THOMAS, HQ/W S WILSON
CASE Category: 33 – OCEANOGRAPHY

NAGW 2248 UNIVERSITY OF COLORADO – BOULDER **3276**
NAGW-2248/UNIV COLORADO @ BOULDER/DYNAMICS OF PLANETESIMALS AND KUIPER COMET BELT
03/11/1991 – 12/31/1996 FY97: $0 Total: $341,871
Prin. Invest.: G R STEWART
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 2438 UNIVERSITY OF COLORADO – BOULDER **3277**
NAGW-2438/UNIV COLORADO/LABORATORY STUDIES OF LOW TEMPERATURE RATE COEFFICIENTS: THE ATMOSPHERIC
05/23/1991 – 12/31/1996 FY97: $0 Total: $438,000
Prin. Invest.: S R LEONE*Prin. Invest.:* NONE
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAGW 2484 UNIVERSITY OF COLORADO – BOULDER **3278**
A COMPREHENSIVE ANALYSIS OF IO'S TORUS AND ATMOSPH ERE
05/23/1991 – 09/30/1997 FY97: $0 Total: $311,785
Prin. Invest.: N M SCHNEIDER
Tech. Officer: HQ/W QUAIDE
CASE Category: 11 – ASTRONOMY

NAGW 2492 UNIVERSITY OF COLORADO – BOULDER **3279**
IMAGING AND SPECTROSCOPY OF TO'S TOURS AND ATMOSPH ERE
07/25/1991 – 09/30/1997 FY97: $0 Total: $338,078
Prin. Invest.: N M SCNEIDER
Tech. Officer: HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NAGW 2675 UNIVERSITY OF COLORADO – BOULDER **3280**
BL LACERTAE OBJECTS
08/20/1991 – 09/30/1997 FY97: $0 Total: $432,900
Prin. Invest.: J T STOCKE
Tech. Officer: HQ/G S KUTTER, HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 2706 UNIVERSITY OF COLORADO – BOULDER **3281**
INVERSE SEQUENTIAL PROCEDURES FOR THE MONITORING O F TIME SERIES
09/23/1992 – 09/30/1995 FY97: –$486 Total: $24,601
Prin. Invest.: U RADOK
Tech. Officer: HQ/R A SCHIFFER, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 2900 UNIVERSITY OF COLORADO – BOULDER **3282**
THEORETICAL ANALYSIS OF SPECTRA OF SUPERNOVAE
02/19/1992 – 12/31/1996 FY97: $0 Total: $278,000
Prin. Invest.: R MCCRAY
Tech. Officer: HQ/R STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 2954 UNIVERSITY OF COLORADO – BOULDER **3283**
BIB PHOTOCONDUCTIVE MIXERS
03/03/1992 – 09/30/1997 FY97: $81,000 Total: $396,000
Prin. Invest.: A L BETZ
Tech. Officer: HQ/L J CAROFF
CASE Category: 11 – ASTRONOMY

NAGW 2968 UNIVERSITY OF COLORADO – BOULDER **3284**
MAGNETOTAIL MODELING AND SIMULATION: COMPARISON T O OBSERVATIONS
03/20/1992 – 12/31/1995 FY97: –$389 Total: $169,158
Prin. Invest.: I DOXAS, NONE
Tech. Officer: HQ/M M MELLOTT, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 2985 UNIVERSITY OF COLORADO – BOULDER **3285**
EFFECT OF GLACIAL AND POLAR ICE ON SPACE GEODETIC OBSERVATIONS
03/16/1992 – 01/31/1996 FY97: –$1,079 Total: $54,479
Prin. Invest.: J M WAHR
Tech. Officer: HQ/R E MURPHY, HQ/D M BUTLER
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3016 UNIVERSITY OF COLORADO – BOULDER **3286**
RELATIVE PROTONS AND THE HIGH–ENERGY SPECTRA OF AG NS
03/20/1992 – 03/31/1996 FY97: –$228 Total: $89,772
Prin. Invest.: M C BEGELMAN
Tech. Officer: HQ/L J KALUZIENSKI, HQ/A N BUNNER
CASE Category: 11 – ASTRONOMY

NAGW 3047 UNIVERSITY OF COLORADO – BOULDER **3287**
ANALYSIS OF GLOBAL CLOUD IMAGERY FROM MULTIPLE SAT ELLITES
04/17/1992 – 01/31/1996 FY97: –$26 Total: $335,554
Prin. Invest.: M L SALBY
Tech. Officer: HQ/J C DODGE, HQ/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3192 UNIVERSITY OF COLORADO – BOULDER **3288**
NAGW–3192/UNIV COLORADO/PULSATION, SHOCKS, MASS LOSS AND DUST: ATMOSHERES OF LONGPERIOD VARIABLES
09/17/1992 – 06/30/1997 FY97: $0 Total: $380,736
Prin. Invest.: E BRUGEL*Prin. Invest.:* NONE
Tech. Officer: HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 3196 UNIVERSITY OF COLORADO – BOULDER **3289**
NAGW–3196/UNIV COLORADO/A DIRECTED SEARCH FOR EXTRATERRESTRIAL LASER SIGNALS
08/21/1992 – 06/30/1997 FY97: $0 Total: $151,700
Prin. Invest.: A L BETZ
Tech. Officer: HQ/J D RUMMEL
CASE Category: 11 – ASTRONOMY

NAGW 3355 UNIVERSITY OF COLORADO – BOULDER **3290**
NAGW–3355/UNIV COLORADO @ BOULDER/DUST PLASMA INTERACTION
01/27/1993 – 02/28/1997 FY97: $0 Total: $235,960
Prin. Invest.: M HORANYI
Tech. Officer: HQ/E C WHIPPLE, HQ/G WITHROE
CASE Category: 13 – PHYSICS

NAGW 3370 UNIVERSITY OF COLORADO – BOULDER **3291**
AN ULTRAVIOLET IMAGING SPECTROMETER FOR THE PLUTO/ CHARO MISSION
02/05/1993 – 12/31/1997 FY97: $0 Total: $389,179
Prin. Invest.: W A MCCLINTOCK
Tech. Officer: HQ/H C BRINTON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3437 UNIVERSITY OF COLORADO – BOULDER **3292**
ICE SUR. TEMP. RETR. FR. AVHHR, ATSR, AND PASS. MI CR. SATE. DATA;ALG. DEVE. AND APPL.
03/10/1993 – 03/31/1997 FY97: $0 Total: $257,688
Prin. Invest.: J KEY, J MASLANIK
Tech. Officer: HQ/R H THOMAS, HQ/R A SCHIFFER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3485 UNIVERSITY OF COLORADO – BOULDER **3293**
INVESTIGATION OF DYNAMICAL AND CHEMICAL BEHAVIOR O F THE LOWER STRATOSPHERE AND INTERACTIONS
06/16/1993 – 09/30/1998 FY97: $50,000 Total: $385,000
Prin. Invest.: M L SALBY
Tech. Officer: HQ/J A KAYE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3530 UNIVERSITY OF COLORADO – BOULDER **3294**
AN INVES. OF THE MID. STR. OF GEO. STORM EFF. IN T HE THEM. ION.
04/22/1993 – 02/28/1997 FY97: $0 Total: $188,763
Prin. Invest.: M CODRESCU
Tech. Officer: HQ/M M MELLOTT, HQ/G L WITHBROE
CASE Category: 13 – PHYSICS

NAGW 3554 UNIVERSITY OF COLORADO – BOULDER **3295**
TOWARD A THEORY OF BROAD ABSORPTION LINE QSO'S
04/29/1993 – 11/30/1995 FY97: –$10 Total: $29,990
Prin. Invest.: M C BEGELMAN
Tech. Officer: HQ/H R MILLER, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 3584 UNIVERSITY OF COLORADO – BOULDER **3296**
THEORETICAL STUDIES OF THE DISTRIBUTION AND EVALUATION OF WATER IN THE ATMOSPHEREOF VENUS
05/12/1993 – 09/30/1997 FY97: $70,000 Total: $220,000
Prin. Invest.: D H GRINSPOON
Tech. Officer: HQ/M C BRINTON
CASE Category: 19 – PHYSICAL SCIENCE,OTHER

NAGW 3600 UNIVERSITY OF COLORADO – BOULDER **3297**
COMPARISON OF INTERPLANETARY AND INTERSTELLAR GRAI NS
06/09/1993 – 09/30/1997 FY97: $10,000 Total: $66,586
Prin. Invest.: T P SNOW
Tech. Officer: HQ/J A NUTH III
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3667 UNIVERSITY OF COLORADO – BOULDER **3298**
EXPLORATIONS IN SCIENCE AND ASTRONOMY EDUCATION
06/25/1993 – 04/30/1996 FY97: –$2 Total: $244,934
Prin. Invest.: J BENNETT
Tech. Officer: HQ/C MORROW, HQ/G P NEWTON
CASE Category: 11 – ASTRONOMY

NAGW 3790 UNIVERSITY OF COLORADO – BOULDER **3299**
GEOSTATISTICAL STRUCTURE ANALYSIS AND HIGH RESOLUT ION MAPPING
10/06/1993 – 09/30/1997 FY97: $0 Total: $210,655
Prin. Invest.: U C HERZFELD
Tech. Officer: HQ/R H THOMAS, HQ/J S THEON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3838 UNIVERSITY OF COLORADO – BOULDER **3300**
NAGW-3838/B UNIV. COLORADO: "WHAT DRIVES THE OUTFL OWS IN BROAD ABSORPTION LINE QSOS?"
12/21/1993 – 09/30/1997 FY97: $0 Total: $90,000
Prin. Invest.: M C BEGELMAN
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 3887 UNIVERSITY OF COLORADO – BOULDER **3301**
UNIV COLORADO; GEOMETRY & GRAPHICS SOFTWARE FOR PL ANETARY SCIENCE OBSERVATIONS
03/03/1994 – 12/31/1996 FY97: $0 Total: $187,256
Prin. Invest.: K E SIMMONS
Tech. Officer: HQ/G H MUCKLOW, HQ/J H BREDECAMP
CASE Category: 22 – COMPUTER SCIENCE

NAGW 3898 UNIVERSITY OF COLORADO – BOULDER **3302**
NAGW-3898/B UNIV. OF COLORADO/BOUL "PLANETARIUM AL LSKIES" 12–MONTH AWARD
03/30/1994 – 04/30/1996 FY97: –$19 Total: $19,981
Prin. Invest.: A HAMILTON
Tech. Officer: HQ/R A MULKEY, HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 3919 UNIVERSITY OF COLORADO – BOULDER **3303**
NAGW-3919/B UNIV. COLORADO/BOULDER "INTERNET ACCES S TO GOES_AND GAC AVHRRR DATA"24–MO MULTI YR AWR
04/21/1994 – 03/31/1997 FY97: $0 Total: $500,000
Prin. Invest.: W EMERY
Tech. Officer: HQ/J C DODGE, HQ/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3961 UNIVERSITY OF COLORADO – BOULDER **3304**
DYNAMICAL MODELS OF SOLAR SYSTEM FORMATION AND EVO LUTION
05/10/1994 – 02/28/1997 FY97: $0 Total: $155,000
Prin. Invest.: G STEWART
Tech. Officer: HQ/R WILLIAMS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3995 UNIVERSITY OF COLORADO – BOULDER **3305**
THE EVOLUTION OF THE MARTIAN ATMOSPHERE
05/14/1994 – 02/28/1997 FY97: $0 Total: $194,754
Prin. Invest.: B JAKOSKY
Tech. Officer: HQ/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3997 UNIVERSITY OF COLORADO – BOULDER **3306**
DETERMINATION AND APPLICATIONS OF SATELLITE–DERIVE D ATMOSPHERIC WATER CHARACTERISTICS
05/14/1994 – 03/31/1997 FY97: $0 Total: $402,023
Prin. Invest.: J A CURRY
Tech. Officer: HQ/J C DODGE, HQ/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4064 UNIVERSITY OF COLORADO – BOULDER **3307**
SUBARCSECOND IMAGING OF THE SOLAR CORONA IN THE 0. 5–2.0 KEV BANDPASS
07/21/1994 – 09/30/1997 FY97: $50,000 Total: $350,000
Prin. Invest.: D J GALLAGHER
Tech. Officer: HQ/W J WAGNER
CASE Category: 13 – PHYSICS

NAGW 4082 UNIVERSITY OF COLORADO – BOULDER **3308**
CHONRULE FORMATION IN LIGHTNING
07/14/1994 – 05/31/1997 FY97: $0 Total: $101,000
Prin. Invest.: M HORANYI
Tech. Officer: HQ/P ROGERS
CASE Category: 11 – ASTRONOMY

NAGW 4145 UNIVERSITY OF COLORADO – BOULDER **3309**
JMEX/SAC–D DEFINITION STUDY
09/28/1994 – 09/30/1998 FY97: $0 Total: $50,000
Prin. Invest.: N SCHNEIDER
Tech. Officer: HQ/E C WHIPPLE, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4146 UNIVERSITY OF COLORADO – BOULDER **3310**
ESTIMATION AND ANALYSIS OF PRECIPITATION OVER THE TROPICAL PACIFIC
09/28/1994 – 09/30/1997 FY97: $124,509 Total: $355,881
Prin. Invest.: S AVERY, J CURRY
Tech. Officer: HQ/J C DODGE, HQ/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4230 UNIVERSITY OF COLORADO – BOULDER **3311**
TOOLS AND TECHNIQUES FOR AUTOMATING THE ANALYSIS OF EOSDIS DATA
01/20/1995 – 06/30/1997 FY97: $0 Total: $853,463
Prin. Invest.: W EMERY
Tech. Officer: HQ/R S MCGINNIS
CASE Category: 22 – COMPUTER SCIENCE

NAGW 4267 UNIVERSITY OF COLORADO – BOULDER **3312**
LABORATORY STUDIES OF THE VISIBLE SPECTROSCOPY AND CHEM-ISTRY OF POLYCYCLIC AROMATIC HYDROCARBONS
01/25/1995 – 09/30/1997 FY97: $0 Total: $160,000
Prin. Invest.: T SNOW
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 4271 UNIVERSITY OF COLORADO – BOULDER **3313**
THE FABRICATION OF ULTRA–LIGHT HOLOGRAPHIC GRATING S
01/31/1995 – 12/31/1997 FY97: $49,000 Total: $98,000
Prin. Invest.: J C GREEN
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 4373 UNIVERSITY OF COLORADO – BOULDER **3314**
FORMATION OF THE MOON FROM AN IMPACT GENERATED DEBRIS DISK
03/31/1995 – 03/31/1997 FY97: $0 Total: $90,727
Prin. Invest.: L ESPOSITO
Tech. Officer: HQ/P G ROGERS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4402 UNIVERSITY OF COLORADO – BOULDER **3315**
GENERATION AND APPLICATION OF AVHRR – DERIVED ICE MOTIONS FOR THE ARCTIC
04/14/1995 – 02/28/1997 FY97: $0 Total: $180,000
Prin. Invest.: J MASLANIK, W EMERY
Tech. Officer: HQ/R H THOMAS, HQ/M BALTUCK
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4451 UNIVERSITY OF COLORADO – BOULDER **3316**
NATURAL OSCILLATIONS OF THE THERMOSPHERE IONOSPHERE SYSTEM
04/28/1995 – 04/30/1998 FY97: $0 Total: $123,178
Prin. Invest.: J M FORBES
Tech. Officer: HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4453 UNIVERSITY OF COLORADO – BOULDER **3317**
NONLINEAR WAVES AND PARTICLE HEATING IN THE AURORAL IONOSPHERE
04/28/1995 – 05/31/1998 FY97: $0 Total: $151,533
Prin. Invest.: M V GOLDMAN
Tech. Officer: HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4475 UNIVERSITY OF COLORADO – BOULDER **3318**
ATMOS NITRIC OXIDE DATA ANALYSIS
05/15/1995 – 03/31/1997 FY97: $0 Total: $33,000
Prin. Invest.: C A BARTH
Tech. Officer: HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4529 UNIVERSITY OF COLORADO – BOULDER **3319**
THE FUNDAMENTAL PHYSICAL PROCESSESS PRODUCING AND CONTROLLING STELLAR CORONAL TRANSITIONS REGION
05/30/1995 – 04/30/1997 FY97: $0 Total: $133,900
Prin. Invest.: T AYRES
Tech. Officer: HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 4579 UNIVERSITY OF COLORADO – BOULDER **3320**
THE POPULATION OF SMALL COMETS: OPTIMUM TECHNIQUE S FOR DETECTION
06/28/1995 – 02/28/1997 FY97: $0 Total: $63,499
Prin. Invest.: J BRANDT
Tech. Officer: HQ/E BARKER
CASE Category: 11 – ASTRONOMY

NAGW 4585 UNIVERSITY OF COLORADO – BOULDER **3321**
MODELING MONITORING & FAULT DIAGNOSIS OF SPACECRAF T AIR CONTAMINANTS
07/05/1995 – 09/30/1997 FY97: $0 Total: $225,673
Prin. Invest.: W F RAMIREZ
Tech. Officer: HQ/G SCHMIDT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4590 UNIVERSITY OF COLORADO – BOULDER **3322**
EXTERNALLY ILLUMINATED PROTO–PLANETARY DISKS
07/12/1995 – 09/30/1997 FY97: $0 Total: $99,994
Prin. Invest.: J BALLY
Tech. Officer: HQ/P G ROGERS
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 4689 UNIVERSITY OF COLORADO – BOULDER **3323**
SATELLITE REMOTE SENSING OF ECOSYSTEM STRUCTURAL & FUNCTIONAL CHANGES: INTEGRATING SPECTRAL MIXTURE
08/10/1995 – 09/30/1997 FY97: $0 Total: $215,000
Prin. Invest.: C WESSMAN
Tech. Officer: HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4725 UNIVERSITY OF COLORADO – BOULDER **3324**
THE INTERSTELLAR MEDIUM IN THREE DIMENSIONS
08/28/1995 – 08/31/1997 FY97: $0 Total: $34,137
Prin. Invest.: T P SNOW
Tech. Officer: HQ/R A STACHNIK
CASE Category: 11 – ASTRONOMY

NAGW 4742 UNIVERSITY OF COLORADO – BOULDER **3325**
POLAR GEOPHYSICAL PRODUCTS DERIVED FROM AVHRR
09/08/1995 – 06/30/1998 FY97: $0 Total: $312,571
Prin. Invest.: J A MASLANIK
Tech. Officer: HQ/M E MAIDEN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4743 UNIVERSITY OF COLORADO – BOULDER **3326**
GENERATION OF LEVEL 3 SSM/I BRIGHTNESS TEMPERATURE S FOR THE PERIOD 1978–1988
09/08/1995 – 06/30/1997 FY97: $0 Total: $270,001
Prin. Invest.: R L AMSTRONG
Tech. Officer: HQ/M E MAIDEN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4755 UNIVERSITY OF COLORADO – BOULDER **3327**
RADARSAT ANTARCTIC MAPPING PROJECT
09/21/1995 – 06/30/1997 FY97: $0 Total: $15,857
Prin. Invest.: R BARRY, T SCAMBOS
Tech. Officer: HQ/M E MAIDEN, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4772 UNIVERSITY OF COLORADO – BOULDER **3328**
STUDIES OF A LASER INTERFEROMETER SPACE ANTENNA (L ISA)
09/16/1995 – 08/31/1996 FY97: $0 Total: $50,000
Prin. Invest.: P L BENDER
Tech. Officer: HQ/M KAPLAN, HQ/D W WEEDMAN
CASE Category: 13 – PHYSICS

NAGW 4803 UNIVERSITY OF COLORADO – BOULDER **3329**
NEXT GENERATION X–RAY OBSERVATORY
10/18/1995 – 09/30/1997 FY97: $0 Total: $138,000
Prin. Invest.: W C CASH
Tech. Officer: HQ/M KAPLAN, HQ/D W WEEDMAN
CASE Category: 13 – PHYSICS

NAGW 4811 UNIVERSITY OF COLORADO – BOULDER **3330**
SCALING THEORIES OF THE 3–D GEOMETRY AND FLOWS OF RIVER NETWORKS
10/10/1995 – 08/31/1996 FY97: $0 Total: $70,850
Prin. Invest.: V K GUPTA, RUNDLE
Tech. Officer: HQ/M Y WEI, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4843 UNIVERSITY OF COLORADO – BOULDER **3331**
MICROGRAVITY EXPERIMENT ON LOW VELOCITY IMPACT
10/06/1995 – 04/30/1997 FY97: $0 Total: $66,086
Prin. Invest.: J E COLWELL
Tech. Officer: HQ/B CARPENTER
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 4879 UNIVERSITY OF COLORADO – BOULDER **3332**
ANALYSIS OF LWIR OBSERVATIONS OF THE MOON FROM CLE MENTINE
12/06/1995 – 10/31/1997 FY97: $0 Total: $86,000
Prin. Invest.: B M JAKOSKY
Tech. Officer: HQ/J M BOYCE, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 4894 UNIVERSITY OF COLORADO – BOULDER **3333**
CLEMENTINE LONG–WAVE INFRARED (LWIR) CAMERA CALIBR ATION
01/22/1996 – 11/30/1997 FY97: $0 Total: $80,000
Prin. Invest.: J BOYCE
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAGW 4941 UNIVERSITY OF COLORADO – BOULDER **3334**
VARIABLE ICE–SHEET DISCHARGE AND COASTAL CHANGE IN WEST ANT-ARCTICA
02/14/1996 – 09/30/1997 FY97: $0 Total: $13,601
Prin. Invest.: T SCAMBOS, M FAHNESTOCK, R KWOK
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4978 UNIVERSITY OF COLORADO – BOULDER **3335**
SEA ICE AND OCEAN PROCESSES IN BAFFIN BAY: A STUDY USING RADARSAT DATA AND NUMERICAL MODELING
03/01/1996 – 08/31/1997 FY97: $0 Total: $85,982
Prin. Invest.: K STEFFEN
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 5036 UNIVERSITY OF COLORADO – BOULDER **3336**
EVOULUTION OF BIOGENIC ELEMENTS ON MARS
04/11/1996 – 03/31/1997 FY97: $0 Total: $50,000
Prin. Invest.: B M JAKOSKY
Tech. Officer: HQ/M MEYER, HQ/J RAHE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 5044 UNIVERSITY OF COLORADO – BOULDER **3337**
CHARGED PARTICLATES IN THE POLAR MESOSPHERE/ INSTRUMENT DEVELOPMENT
05/06/1996 – 05/31/1997 FY97: $0 Total: $75,000
Prin. Invest.: S ROBERTSON
Tech. Officer: HQ/M M MELLOTT, HQ/G L WITHBROE
CASE Category: 33 – OCEANOGRAPHY

NAGW 5075 UNIVERSITY OF COLORADO – BOULDER **3338**
EVOLUTION AND ACTIVITY IN THE SOLAR CORONA: A COM PARISON OF CORONAL AND CHROMOSPHERIC STRUCTURES
05/28/1996 – 09/30/1997 FY97: $0 Total: $74,170
Prin. Invest.: F BAGENAL
Tech. Officer: HQ/W J WAGNER, HQ/G L WITHBROE
CASE Category: 13 – PHYSICS

NAGW 5085 UNIVERSITY OF COLORADO – BOULDER **3339**
UNDERSTANDING VARIABILITY IN THE AVIRIS–DERIVED PA RAMETERS FROM VEGETATION CANOPIES
05/28/1996 – 09/30/1997 FY97: $0 Total: $168,858
Prin. Invest.: A H GOETZ
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 5097 UNIVERSITY OF COLORADO – BOULDER **3340**
LUNAR DUST: EROSION & TRANSPORT
06/10/1996 – 12/31/1996 FY97: $0 Total: $75,000
Prin. Invest.: M HORANYI
Tech. Officer: HQ/N NUTH, HQ/H C BRINTON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 5152 UNIVERSITY OF COLORADO – BOULDER **3341**
ANALYZING THE LOSS ENERGIZATION AND TRANSPORT OF E NERGETIC ELCTRONS
08/23/1996 – 07/15/1997 FY97: $0 Total: $74,900
Prin. Invest.: X LI
Tech. Officer: HQ/J D BOHLIN, HQ/G L WITHBROE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 5192 UNIVERSITY OF COLORADO – BOULDER **3342**
SATELLITE REMOTE SENSING OF TROPICAL ICE CLOUDS AN D PRECIPI-TATION FOR GCM VERIFICATION
09/23/1996 – 12/31/1997 FY97: $103,624 Total: $103,624
Prin. Invest.: K F EVANS
Tech. Officer: HQ/K H BERGMAN, HQ/R C HARRISS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 5193 UNIVERSITY OF COLORADO – BOULDER **3343**
MODELING SUBSTORM DYNAMICS WITH A LOW DIMENSIONAL ENERGY CONSERVING STATE SPACE SYSTEM
09/19/1996 – 07/31/1997 FY97: $0 Total: $57,367
Prin. Invest.: I DOXAS
Tech. Officer: HQ/J D BOHLIN, HQ/G L WITHBROE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5253 UNIVERSITY OF COLORADO – BOULDER **3344**
AN INTEGRATED USE OF EXPERIMENTAL MODELING, AND RE MOTE SENSING TECHNIQUES TO INVESTIGATE CARBON ISO
11/07/1996 – 03/31/1998 FY97: $171,581 Total: $171,581
Prin. Invest.: A R TOWNSEND, NONE
Tech. Officer: HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 5 31860 UNIVERSITY OF COLORADO – BOULDER **3345**
RESEARCH SOFTWARE DEVELOPMEMT UNDER NRA 91–OSSA–19 ADP PROGRAM.
09/30/1992 – 09/29/1996 FY97: $0 Total: $265,000
Prin. Invest.: B DOMIK
Tech. Officer: GSFC/R J OLIVERSON
CASE Category: 11 – ASTRONOMY

NAS 5 32392 UNIVERSITY OF COLORADO – BOULDER **3346**
OPERATION OF SNOW & ICE DISTRIBUTED ACTIVE ARCHIVE CENTER.
04/19/1993 – 01/31/1998 FY97: $2,914,000 Total: $11,038,713
Prin. Invest.: R G BARRY
Tech. Officer: GSFC/G HUNOLT
CASE Category: 42 – ASTRONAUTICAL ENGR

NAS 5 97045 UNIVERSITY OF COLORADO – BOULDER **3347**
EXTENSION OF SOLSTICE PHASE B EFFORT
02/21/1997 – 08/20/1998 FY97: $2,536,426 Total: $2,536,426
Prin. Invest.: G ROTTMAN
Tech. Officer: GSFC/V GRIFFIN
CASE Category: 42 – ASTRONAUTICAL ENGR

NAS 5 97046 UNIVERSITY OF COLORADO – BOULDER **3348**
LETTER CONTRACT FOR HIRDIS PHASE C/D/E
01/17/1997 – 03/31/2008 FY97: $19,825,095 Total: $19,825,095
Prin. Invest.: J GILLE
Tech. Officer: GSFC/L MILAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 5 97140 UNIVERSITY OF COLORADO – BOULDER **3349**
DATA ANALYSIS CEPPAD
03/06/1997 – 09/30/1998 FY97: $194,410 Total: $194,410
Prin. Invest.: D BAKER
Tech. Officer: GSFC/R A HOFFMAN
CASE Category: 11 – ASTRONOMY

NAS 5 97145 UNIVERSITY OF COLORADO – BOULDER **3350**
MISSION OPERATIONS, DATA ANALYSIS, AND ALGORITHM MAINTENANCE FOR UARS SOLSTICE
03/31/1997 – 11/30/1997 FY97: $449,498 Total: $449,498
Prin. Invest.: G J ROTTMAN
Tech. Officer: GSFC/C H JACKMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 8 31958 UNIVERSITY OF COLORADO – BOULDER **3351**
STUDY OF GEOPHYSICAL FLUID DYNAMICS WITHELECTRO – HYDRODY-NAMICS POLARIATION FORCES.
03/26/1976 – 03/31/1997 FY97: $42,543 Total: $2,961,261
Prin. Invest.: J E HART, J TOOMRE
Tech. Officer: MSFC/G HALL, MSFC/G H FICHTL
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAS 8 38779 UNIVERSITY OF COLORADO – BOULDER **3352**
MECHANICS OF GRANULAR MARTERIALS MICROGRAVITY
09/24/1992 – 09/30/1998 FY97: $485,705 Total: $2,082,905
Prin. Invest.: S STURE
Tech. Officer: MSFC/B GUYNES
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 2 904 UNIVERSITY OF COLORADO – BOULDER **3353**
COMPREHENSION BASED ANALYSIS OF AUTOFLIGHT SYSTEM INTER-FACES
06/28/1995 – 11/30/1997 FY97: $48,340 Total: $205,299
Prin. Invest.: P G POLSON, NONE
Tech. Officer: ARC/E A PALMER, ARC/M SHAFTO
CASE Category: 49 – ENGINEERING, OTHER

NCC 2 5067 UNIVERSITY OF COLORADO – BOULDER **3354**
OPTICAL DESIGN OF PLANT CANOPY ARCHITEC. MEASUREME NT INSTRUMENT & FABRICATION OFTWO DIMENSIONAL...
06/08/1994 – 05/31/1996 FY97: $0 Total: $14,995
Prin. Invest.: B J VAN ZEGHBROECK
Tech. Officer: ARC/V C VANDERBILT
CASE Category: 45 – ELECTRICAL ENGR

NCC 8 131 UNIVERSITY OF COLORADO – BOULDER **3355**
BIONERVE SPACE TECHNOLOGIES
01/31/1997 – 10/31/1997 FY97: $2,225,000 Total: $2,225,000
Prin. Invest.: G MORGENTHALER
Tech. Officer: MSFC/M NALL
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 9 65 UNIVERSITY OF COLORADO – BOULDER **3356**
SPACE STATION BASED MIRON ACURACY DEPLOYMENT EXPER IMENT
07/01/1997 – 10/31/1997 FY97: $90,362 Total: $90,362
Prin. Invest.: L PETERSON
Tech. Officer: JSC/C PARRA
CASE Category: 41 – AERONAUTICAL ENGNR

NCCW 37 UNIVERSITY OF COLORADO – BOULDER **3357**
UNIV COLORADO DISTRIBUTION & AUTOMATION TECHNOLOGY ADVANCE-MENT
02/17/1994 – 08/31/1996 FY97: $0 Total: $200,000
Prin. Invest.: R R HANSEN
Tech. Officer: HQ/R A GUALDONI
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 10033 UNIVERSITY OF COLORADO – BOULDER **3358**
CENTER FOR SPACE CONSTRUCTION GRADUATE TRAINING PROGRAM
12/22/1994 – 10/31/1996 FY97: $0 Total: $502,329
Prin. Invest.: R SU
Tech. Officer: HQ/V BITTINGER
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 30175 UNIVERSITY OF COLORADO – BOULDER **3359**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/23/1993 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: A F GOETZ
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 30187 UNIVERSITY OF COLORADO – BOULDER **3360**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/23/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: M SALBY
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 30205 UNIVERSITY OF COLORADO – BOULDER **3361**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/23/1993 – 08/31/1996 FY97: –$5,232 Total: $60,768
Prin. Invest.: D J HOFMANN
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 30206 UNIVERSITY OF COLORADO – BOULDER **3362**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/23/1993 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: A R RAVISHANKARA
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 30207 UNIVERSITY OF COLORADO – BOULDER **3363**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/23/1993 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: G H BORN
Tech. Officer: HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30210 UNIVERSITY OF COLORADO – BOULDER **3364**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/23/1993 – 05/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: R K MONSON
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30261 UNIVERSITY OF COLORADO – BOULDER **3365**
GLOBAL CHANGE FELLOWSHIP AWARD
09/29/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: J COLE
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 33 – OCEANOGRAPHY

NGT 30265 UNIVERSITY OF COLORADO – BOULDER **3366**
GLOBAL CHANGE FELLOWSHIP AWARD
09/29/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: V VAIDA
Tech. Officer: HQ/R A SCHIFFER, HQ/G ASRAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 30266 UNIVERSITY OF COLORADO – BOULDER **3367**
GLOBAL CHANGE FELLOWSHIP AWARD
09/29/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: D WALKER
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30285 UNIVERSITY OF COLORADO – BOULDER **3368**
GLOBAL CHANGE FELLOWSHIP AWARD
09/29/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: J A CURRY
Tech. Officer: HQ/J S THEON, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30322 UNIVERSITY OF COLORADO – BOULDER **3369**
GLOBAL CHANGE FELLOWSHIP
08/31/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: J OVERPECK
Tech. Officer: HQ/G ASRAR, HQ/M BALTUCK
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30353 UNIVERSITY OF COLORADO – BOULDER **3370**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/31/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: M A TOLBERT
Tech. Officer: HQ/R A SCHIFFER, HQ/G ASRAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 40008 UNIVERSITY OF COLORADO – BOULDER **3371**
NATIONAL SPACE GRANT COLLEGE & FELLOWSHIP PROGRAM
10/19/1989 – 09/30/1997 FY97: $0 Total: $2,773,666
Prin. Invest.: E R HANSEN
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 50872 UNIVERSITY OF COLORADO – BOULDER **3372**
NGT-50872/UNIV COLORADO/GRADUATE STUDENT RESEARCHERS PROGRAM
05/15/1992 – 08/16/1996 FY97: –$48 Total: $87,952
Prin. Invest.: R CULP
Tech. Officer: JSC/S GOLDSTEIN
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 50934 UNIVERSITY OF COLORADO – BOULDER **3373**
NGT-50934/UNIV COLORADO @ BOULDER/GRADUATE STUDENT RESEARCHERS PROGRAM
08/18/1992 – 08/31/1996 FY97: –$27 Total: $73,805
Prin. Invest.: C BARTH
Tech. Officer: GSFC/J DURNING
CASE Category: 42 – ASTRONAUTICAL ENGR

NGT 50958 UNIVERSITY OF COLORADO – BOULDER **3374**
NGT-50958/UNIV COLORADO @ BOULDER/GRADUATE STUDENT RESEARCHERS PROGRAM
06/17/1992 – 08/19/1996 FY97: –$7,424 Total: $58,576
Prin. Invest.: E ZWEIBEL
Tech. Officer: HQ/J K ALEXANDER
CASE Category: 13 – PHYSICS

NGT 51034 UNIVERSITY OF COLORADO – BOULDER **3375**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
07/07/1993 – 06/30/1996 FY97: –$1,150 Total: $64,850
Prin. Invest.: D E SMITH
Tech. Officer: GSFC/G SOFFEN
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51040 UNIVERSITY OF COLORADO – BOULDER **3376**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/05/1993 – 06/30/1997 FY97: $0 Total: $88,000
Prin. Invest.: R R LEBEN
Tech. Officer: JPL/C HIX
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51091 UNIVERSITY OF COLORADO – BOULDER **3377**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/25/1993 – 06/30/1996 FY97: –$413 Total: $65,587
Prin. Invest.: N M SCHNEIDER
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51128 UNIVERSITY OF COLORADO – BOULDER **3378**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/14/1993 – 08/22/1996 FY97: $0 Total: $66,000
Prin. Invest.: R LEBEN
Tech. Officer: HQ/G LESANE
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51135 UNIVERSITY OF COLORADO – BOULDER **3379**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/19/1993 – 01/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: M A TOLBERT
Tech. Officer: HQ/G LESANE
CASE Category: 12 – CHEMISTRY

NGT 51141 UNIVERSITY OF COLORADO – BOULDER **3380**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/13/1993 – 12/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: G BORN
Tech. Officer: HQ/G LESANE
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51179 UNIVERSITY OF COLORADO – BOULDER **3381**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/02/1993 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: J N KOSTER
Tech. Officer: MSFC/B SWINFORD
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51206 UNIVERSITY OF COLORADO – BOULDER **3382**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/06/1994 – 06/30/1996 FY97: –$17,965 Total: $26,035
Prin. Invest.: R FREHLICH
Tech. Officer: MSFC/F SIX
CASE Category: 45 – ELECTRICAL ENGR

NGT 51224 UNIVERSITY OF COLORADO – BOULDER **3383**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/26/1994 – 12/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: M A TOLBERT
Tech. Officer: HQ/A NOVOTNY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 51227 UNIVERSITY OF COLORADO – BOULDER **3384**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/16/1994 – 08/23/1996 FY97: $0 Total: $44,000
Prin. Invest.: P AXELRAD
Tech. Officer: GSFC/G SOFFEN
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51257 UNIVERSITY OF COLORADO – BOULDER **3385**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/14/1994 – 08/23/1996 FY97: $0 Total: $44,000
Prin. Invest.: A MICHELSON
Tech. Officer: LARC/L EVANS
CASE Category: 45 – ELECTRICAL ENGR

NGT 51283 UNIVERSITY OF COLORADO – BOULDER **3386**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/07/1994 – 06/30/1996 FY97: –$22,000 Total: $44,000
Prin. Invest.: J GREEN
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51291 UNIVERSITY OF COLORADO – BOULDER **3387**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/28/1994 – 09/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: J STOCKE
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51294 UNIVERSITY OF COLORADO – BOULDER **3388**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/26/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: D H GRINSPOON
Tech. Officer: ARC/M MOORE
CASE Category: 11 – ASTRONOMY

NGT 51297 UNIVERSITY OF COLORADO – BOULDER **3389**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/28/1994 – 12/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: G W MORGENTHALER
Tech. Officer: HQ/D HOLLAND
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51373 UNIVERSITY OF COLORADO – BOULDER **3390**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/30/1995 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: R LEBEN
Tech. Officer: HQ/A NOVOTING
CASE Category: 42 – ASTRONAUTICAL ENGR

NGT 51380 UNIVERSITY OF COLORADO – BOULDER **3391**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/06/1995 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: T P SNOW
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51398 UNIVERSITY OF COLORADO – BOULDER **3392**
GRADUATE STUDENT RESEARCHERS PROGRAMS
07/07/1995 – 08/14/1997 FY97: $0 Total: $44,000
Prin. Invest.: D M ETTER
Tech. Officer: HQ/A NOVOTNY
CASE Category: 45 – ELECTRICAL ENGR

NGT 51415 UNIVERSITY OF COLORADO – BOULDER **3393**
GSRP
08/29/1995 – 08/31/1998 FY97: $0 Total: $44,000
Prin. Invest.: M TOLBERT
Tech. Officer: HQ/A NOVOTNY
CASE Category: 12 – CHEMISTRY

NGT 51420 UNIVERSITY OF COLORADO – BOULDER **3394**
GSRP
09/16/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: R SIE
Tech. Officer: JPL/C HIX
CASE Category: 45 – ELECTRICAL ENGR

NGT 51421 UNIVERSITY OF COLORADO – BOULDER **3395**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/13/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: P TODD
Tech. Officer: HQ/G LESANE
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51642 UNIVERSITY OF COLORADO – BOULDER **3396**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/08/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: E ZWEIBEL
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 70266 UNIVERSITY OF COLORADO – BOULDER **3397**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/15/1992 – 02/28/1997 FY97: $0 Total: $88,000
Prin. Invest.: G W ROSBOROUGH
Tech. Officer: HQ/D K RUSSELL
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 70291 UNIVERSITY OF COLORADO – BOULDER **3398**
NGT-70291/UNIV COLORADO/GRADUATE STUDENT RESEARCHERS PROGRAM
07/01/1992 – 08/31/1996 FY97: $0 Total: $92,578
Prin. Invest.: C E FOSHA
Tech. Officer: HQ/J T LYNCH
CASE Category: 45 – ELECTRICAL ENGR

NGT 70389 UNIVERSITY OF COLORADO – BOULDER **3399**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
08/23/1994 – 06/30/1997 FY97: $0 Total: $110,000
Prin. Invest.: R D CULP
Tech. Officer: HQ/D K RUSSELL
CASE Category: 33 – OCEANOGRAPHY

NGT 1 52134 UNIVERSITY OF COLORADO – BOULDER **3400**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/18/1996 – 06/30/1998 FY97: $10,000 Total: $32,000
Prin. Invest.: R W MILLER
Tech. Officer: LARC/G J BRAUKMANN, LARC/J W PAULSON
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 1 52139 UNIVERSITY OF COLORADO – BOULDER **3401**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
06/26/1996 – 06/30/1998 FY97: $10,000 Total: $32,000
Prin. Invest.: K S CRUMPTON
Tech. Officer: LARC/D J KATZBERG, LARC/H R KOWITZ
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 1 52151 UNIVERSITY OF COLORADO – BOULDER **3402**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
10/03/1996 – 08/23/1997 FY97: $22,000 Total: $22,000
Prin. Invest.: A R MICKELSON
Tech. Officer: LERC/R HATHAWAY
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 2 52234 UNIVERSITY OF COLORADO – BOULDER **3403**
A STRUCTURAL ANALYSIS APPROACH TO EXAMINING THE EF FECTS OF DISUSE OSEOPOROSIS
08/26/1997 – 07/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: S J SIMSKE
Tech. Officer: ARC/R T WHALEN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 3 52306 UNIVERSITY OF COLORADO – BOULDER **3404**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/31/1995 – 08/31/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: R H DAVIS
Tech. Officer: LERC/L SHAW
CASE Category: 43 – CHEMICAL ENGR

NGT 5 5 UNIVERSITY OF COLORADO – BOULDER **3405**
TIDAL WAVELENGTHS FROM ALONG TRACK ALTIMETRY AND IMPLICATIONS FOR GRIDDING TIDAL SOLUTIONS
06/22/1995 – 06/30/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: G H BORN
Tech. Officer: GSFC/G A SOFFEN, GSFC/R S NEREM
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 16 UNIVERSITY OF COLORADO – BOULDER **3406**
MULTIPLE SATELLITE FORMATION KEEPING IN HIGHLY ELL IPTIC ORBITS
07/15/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: P AXELRAD
Tech. Officer: GSFC/G SOFFEN
CASE Category: 11 – ASTRONOMY

NGT 5 38 UNIVERSITY OF COLORADO – BOULDER **3407**
THIS AGREEMENT PROVIDES LAST YEAR OF FUNDING FOR U CENTER FOR SPACE CONTRUCTION GRADUATES.
05/05/1997 – 10/31/1997 FY97: $124,666 Total: $124,666
Prin. Invest.: R SU
Tech. Officer: GSFC/R AVANT
CASE Category: 49 – ENGINEERING, OTHER

NGT 5 47 UNIVERSITY OF COLORADO – BOULDER **3408**
INVESTIGATION OF HARDWARE AND ALGORITHM ARCHITECTU GEO AND HEO ORBITS
06/23/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: P AXELRAD
Tech. Officer: GSFC/M S BURRELL
CASE Category: 46 – MECHANICAL ENGR

NGT 5 49 UNIVERSITY OF COLORADO – BOULDER **3409**
OUTER ELECTRON BELT MODELING BY ASSIMILATION OF RE DATA
06/23/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D N BAKER
Tech. Officer: GSFC/M S BURRELL
CASE Category: 11 – ASTRONOMY

NGT 5 30003 UNIVERSITY OF COLORADO – BOULDER **3410**
SATELLITE REMOTE SENSING OF ECOSYSTEM STRUCTURAL A IN SPATIALLY HETEROGENEOUS REGIONS:
10/11/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: D A WEISMAN
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30023 UNIVERSITY OF COLORADO – BOULDER **3411**
EL NINO PREDICTION USING HUERISTIC ALGORITHMS
10/14/1996 – 08/31/1997 FY97: $44,000 Total: $44,000
Prin. Invest.: D WEBSTER
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30025 UNIVERSITY OF COLORADO – BOULDER **3412**
PROPOSAL FOR THE STUDY AND MODELING OF THE MAGMATI MECHANISM AT LONG VALLEY CALDERA, CALIFORNIA
10/17/1996 – 08/31/1997 FY97: $44,000 Total: $44,000
Prin. Invest.: J B RUNDLE
Tech. Officer: GSFC/G ASRAR
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 5 30026 UNIVERSITY OF COLORADO – BOULDER **3413**
SCALABLE AND ADAPTIVE FILE MANAGEMENT IN NETWORKS
10/17/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: D WEISMAN
Tech. Officer: HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30034 UNIVERSITY OF COLORADO – BOULDER **3414**
IMPROVING THE PREDICTABILITY OF POLAR CLIMATE THRO ASSIMILATION OF REMOTELY-SENSED DATA
10/17/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: J MASLANIK
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30059 UNIVERSITY OF COLORADO – BOULDER **3415**
THIRD YEAR FUNDING: A 14000 YEAR RECORD OF DECADE TROPICAL CLIMATE VARIABILITY FROM ANNUALLY-LAMINA
09/10/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J OVERPECK
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30072 UNIVERSITY OF COLORADO – BOULDER **3416**
PASSIVE MICROWAVE MEASUREMENTS OF ARCTIC CLOUDS
09/09/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J CURRY
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30076 UNIVERSITY OF COLORADO – BOULDER **3417**
ATMOSPHERIC LIFETIMES OF PEROXY NITRATES
STUDENT – EDW
09/09/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: A R RAVIS
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40028 UNIVERSITY OF COLORADO – BOULDER **3418**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA
12/31/1996 – 01/31/1998 FY97: $440,248 Total: $440,248
Prin. Invest.: E R HANSEN
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50022 UNIVERSITY OF COLORADO – BOULDER **3419**
CHEMISTRY IN COMETS HALE–BOOP AND HYAKUTAKE
07/17/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: W CASH
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50032 UNIVERSITY OF COLORADO – BOULDER **3420**
THE RELATIONSHIP BETWEEN INTERSTELLAR DUST EXTINCT N OF THE INTERSTELLAR GAS
07/14/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D P SNOW
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50056 UNIVERSITY OF COLORADO – BOULDER **3421**
BOUNDED WAVELET ANALYSIS OF OCEANOGRAPHIC REMOTE
07/28/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D ETTER
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50070 UNIVERSITY OF COLORADO – BOULDER **3422**
STUDY THE MECHANISM OF HETEROGENEOUS ATMOSPHERIC R POLAR STRATOSPHERIC CLOUDS
08/29/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: M TOLBERT
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50090 UNIVERSITY OF COLORADO – BOULDER **3423**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/05/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: P TODD
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50102 UNIVERSITY OF COLORADO – BOULDER **3424**
PROPOSAL FOR THE DEVELOPMENT, EXPLORATION, AND VAL , FULLY THREE–DIMENSIONAL EARTHQUAKE MODEL
09/06/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J RUNDLE*Prin. Invest.:* NONE
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50106 UNIVERSITY OF COLORADO – BOULDER **3425**
DETERMINATION OF OPTICAL CONSTANTS FOR THE REMOTE STRATOSPHERIC CLOUDS AND GLOBALAEROSOLS
09/06/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: M TOLBERT
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50124 UNIVERSITY OF COLORADO – BOULDER **3426**
DETECTION OF POLEWARD PROPAGATING ENSO SIGNALS USI
09/09/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: R LEBEN
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50141 UNIVERSITY OF COLORADO – BOULDER **3427**
INVESTIGATIONS OF A P MODE PROPOGATION IN THE SOLA
09/10/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: E G ZWEIBEL
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 9 22 UNIVERSITY OF COLORADO – BOULDER **3428**
REMOTELY DETERMINING MATERIAL TYPE OF ORBITAL DEB
05/30/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: L NELSON
Tech. Officer: JSC/D G SICKOREZ
CASE Category: 49 – ENGINEERING, OTHER

NSG 5303 UNIVERSITY OF COLORADO – BOULDER **3429**
ULTRAVIOLET MEASUREMENTS WITH HIGH SPECTRAL RESOLUTION
09/15/1978 – 11/30/1997 FY97: $0 Total: $6,464,764
Prin. Invest.: T P SNOW, JR., W E MCCLINTOCK, W C CASH
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 11 – ASTRONOMY

NAGW 4865 UNIVERSITY OF COLORADO AT COLORADO SPRINGS **3430**
EVENT RATE FOR LISA GRAVITATIONAL WAVE SIGNALS FRO M BLACK HOLE – MASSIVE BLACK HOLE COASESCENCES
11/21/1995 – 12/31/1998 FY97: $0 Total: $29,337
Prin. Invest.: P L BENDER
Tech. Officer: HQ/L TAFF, HQ/D W WEEDMAN
CASE Category: 13 – PHYSICS

NAGW 5134 UNIVERSITY OF COLORADO AT COLORADO SPRINGS **3431**
LATE STAGES OF ACCRETION OF URANUS AND NEPTUNE
07/22/1996 – 06/30/1997 FY97: $0 Total: $45,000
Prin. Invest.: G R STEWART
Tech. Officer: HQ/P ROGERS, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAG13 36 UNIVERSITY OF COLORADO AT COLORADO SPRINGS **3432**
SMALL SPACE CRAFT TECHNOLOGY INITIATIVE SAME
03/28/1996 – 01/31/1997 FY97: –$3,600 Total: $11,200
Prin. Invest.: C FOSHA
Tech. Officer: SSC/V ZANONI
CASE Category: 49 – ENGINEERING, OTHER

NAG13 57 UNIVERSITY OF COLORADO AT COLORADO SPRINGS **3433**
SMALL SPACECRAFT TECHNOLOGY INITIATIVE SAME
09/30/1997 – 03/29/1998 FY97: $14,832 Total: $14,832
Prin. Invest.: C FOSHA, M AUGUSTEIOJN
Tech. Officer: SSC/V ZANONI
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 1 1918 UNIVERSITY OF DENVER **3434**
COLLECTION AND ANALYSIS OF AIRCRAFT EMITTED PARTICLES
04/25/1997 – 01/31/1998 FY97: $52,605 Total: $52,605
Prin. Invest.: J C WILSON
Tech. Officer: LARC/B E ANDERSON, LARC/W R COFER, III
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 351 UNIVERSITY OF DENVER **3435**
INFRARED MEASUREMENTS OF ATMOSPHERIC CONSTITUENTS
12/12/1985 – 12/31/1997 FY97: $0 Total: $4,693,404
Prin. Invest.: D G MURCRAY
Tech. Officer: ARC/E P CONDON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 3 1609 UNIVERSITY OF DENVER **3436**
MICROGRAVITY HEAT TRANSFER MECHANISMS IN THE NUCLE ATE POOL BOILING ANDD CRITICAL HEAT FLUX REIMES
05/24/1994 – 07/09/1997 FY97: –$1,226 Total: $98,699
Prin. Invest.: J KIM, C A MOORE
Tech. Officer: LERC/J B MCQUILLEN
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 3386 UNIVERSITY OF DENVER **3437**
CALIBRATION AND SCIENTIFIC SUPPORT OF LENA FOR THE IMAGE SATELLITE PROGRAM
09/04/1996 – 09/14/1997 FY97: $95,598 Total: $95,598
Prin. Invest.: T STEPHEN
Tech. Officer: GSFC/M SMITH
CASE Category: 11 – ASTRONOMY

NAG 5 3411 UNIVERSITY OF DENVER **3438**
ISO OBSERVATIONS OF CIRCUMSTELLAR DISKS: CLUES TO OF PLANETS
09/19/1996 – 08/31/1997 FY97: $0 Total: $120,000
Prin. Invest.: R E STENCEL
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAGW 3680 UNIVERSITY OF DENVER **3439**
ISO OBSERVATIONS OF CIRCUMSTELLAR DISKS: CLUES TO THE BIRTH AND DEATH OF PLANETS
08/03/1993 – 05/31/1997 FY97: $0 Total: $211,312
Prin. Invest.: R E STENCEL
Tech. Officer: HQ/L J CAROFF
CASE Category: 11 – ASTRONOMY

NAS 1 96017 UNIVERSITY OF DENVER **3440**
COMPARISON OF INSITU AEROSOL SIZE DISTRIBUTIONS ACQUIRED IN THE UPPER TROPOSPHERE AND LOWER
08/02/1996 – 08/02/1999 FY97: $24,000 Total: $47,000
Prin. Invest.: J C WILSON
Tech. Officer: LARC/G MADDREA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 29311 UNIVERSITY OF DENVER **3441**
MEASUREMENT OF X–RAYS AND INTERGETIC ELECTRONS IN VLF TRIGGER EXPERIMENTS
01/28/1986 – 01/31/1997 FY97: –$2,936 Total: $136,039
Prin. Invest.: F WHITE
Tech. Officer: GSFC/R GOLDBERG
CASE Category: 11 – ASTRONOMY

NCC 1 48 UNIVERSITY OF DENVER **3442**
COLLABORATIVE STUDY OF HIGH RESOLUTION INFRARED ATMOSPHERIC SPECTRA
11/26/1980 – 11/30/1998 FY97: $50,000 Total: $746,705
Prin. Invest.: A GOLDMAN, D G MURCRAY
Tech. Officer: LARC/C P RINSLAND, LARC/R K SEALS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 782 UNIVERSITY OF DENVER **3443**
AEROSOL MEASUREMENTS FROM THE ER–2 IN SPADE II & A SHOME: UPGRADE OF THE FOCUSED CAVITY AEROSOL ...
02/18/1993 – 12/31/1997 FY97: $337,000 Total: $1,342,000
Prin. Invest.: J C WILSON
Tech. Officer: ARC/E CONDON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 894 UNIVERSITY OF DENVER **3444**
HIGHLY RESOLVED AEROSOL MEASUREMENTS FROM HGIH ALT ITUDE PLATFORMS: FOCUSED CAVITY AEROSOL
03/21/1995 – 12/31/1997 FY97: $0 Total: $399,999
Prin. Invest.: J C WILSON
Tech. Officer: ARC/S S WEGENER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 3 470 UNIVERSITY OF DENVER **3445**
INVESTIGATION OF POOL BOILING HEAT TRANSFER MECHAN ISM IN MICROGRAVITY USING AN ARRAY OF SURFACE MOU
05/03/1996 – 05/31/2000 FY97: $57,000 Total: $155,000
Prin. Invest.: J KIM, T S KALKUR
Tech. Officer: LERC/J B MCQUILLEN
CASE Category: 49 – ENGINEERING, OTHER

NGT 51290 UNIVERSITY OF DENVER **3446**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/30/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: R E STENCEL
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NSG 1432 UNIVERSITY OF DENVER **3447**
GROUND MONITORING OF ATMOSPHERIC CONSTITUENTS BY HIGH RESOLUTION INFRARED SOLAR SPECTROSCOPY
07/08/1977 – 04/10/1998 FY97: $7,000 Total: $1,322,700
Prin. Invest.: D G MURCRAY
Tech. Officer: LARC/C P RINSLAND, LARC/M A SMITH
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 8 227 UNIVERSITY OF NORTHERN COLORADO **3448**
JOVE
02/25/1992 – 03/19/1997 FY97: –$247 Total: $120,273
Prin. Invest.: C JACKSON, S FRYE, R WALCH
Tech. Officer: MSFC/F SIX
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NGT 90263 UNIVERSITY OF NORTHERN COLORADO **3449**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
01/18/1995 – 08/14/1996 FY97: $0 Total: $24,000
Prin. Invest.: P C ISAACSON
Tech. Officer: HQ/D K RUSSELL
CASE Category: 21 – MATHEMATICS

NGT 5 90057 UNIVERSITY OF NORTHERN COLORADO **3450**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
02/12/1997 – 08/14/1997 FY97: $20,000 Total: $20,000
Prin. Invest.: P ISAACSON
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 22 – COMPUTER SCIENCE

CONNECTICUT

NAG 5 6316 UNIV. OF CONNECTICUT HEALTH CENTER **3451**
TRANSGENIC MARKERS OF BONE CELL LINEAGE PROGRESSIO
09/29/1997 – 09/30/1998 FY97: $68,300 Total: $68,300
Prin. Invest.: D ROWE
Tech. Officer: GSFC/T SCOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 3332 UNIV. OF CONNECTICUT HEALTH CENTER **3452**
COLLAGEN PROMOTER TRANSEGENE ACTIVITY IN NORMAL AN D MUTANT MICE
02/05/1993 – 06/30/1997 FY97: $0 Total: $313,056
Prin. Invest.: D W ROWE
Tech. Officer: HQ/T W HALSTEAD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 1 1382 UNIVERSITY OF CONNECTICUT **3453**
NEAR–THRESHOLD FATIGUE CRACK GROWTH IN ALUMINUM AL LOYS AND TI–6AL–4V FOR AMBIENT TO 400DEGREES F
02/28/1992 – 09/30/1997 FY97: $55,000 Total: $308,918
Prin. Invest.: A J MCEVILY
Tech. Officer: LARC/J C NEWMAN, LARC/C E HARRIS
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1870 UNIVERSITY OF CONNECTICUT **3454**
EVAPORATION, BOILING AND CONDENSATION ON/IN CAPILA RY SRUC-TURES OF HIGH HEAT FLUX TWO–PHASE DEVICES
05/09/1996 – 05/08/2000 FY97: $60,000 Total: $150,000
Prin. Invest.: A FAGHRI*Prin. Invest.:* NONE
Tech. Officer: LERC/B S SINGH
CASE Category: 46 – MECHANICAL ENGR

NAG 5 4029 UNIVERSITY OF CONNECTICUT **3455**
THE EARLY EVOLUTION OF PRO– AND EUKARYOTES
03/06/1997 – 03/31/1998 FY97: $29,999 Total: $29,999
Prin. Invest.: D P GOGARTEN
Tech. Officer: GSFC/M A MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 4572 UNIVERSITY OF CONNECTICUT **3456**
THE EARLY EVOLUTION OF PRO– AND EUKARYOTES
06/09/1995 – 03/31/1997 FY97: $30,000 Total: $60,001
Prin. Invest.: J P GOGARTEN
Tech. Officer: HQ/M MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG10 191 UNIVERSITY OF CONNECTICUT **3457**
OPTICAL VERIFICATION LAB DEMO SYSTEM FOR HIGH SECURITY
05/01/1996 – 05/31/1998 FY97: $100,000 Total: $200,000
Prin. Invest.: B JAVIDI
Tech. Officer: KSC/K POIMBOEUT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 2 5123 UNIVERSITY OF CONNECTICUT **3458**
MULTIPLE FAULT ISOLATION IN REDUNDANT SYSTEMS
04/14/1995 – 05/31/1997 FY97: $0 Total: $39,982
Prin. Invest.: K R PATTIPATI
Tech. Officer: ARC/A PATTERSON–HINE, ARC/D L IVERSON
CASE Category: 49 – ENGINEERING, OTHER

NCC 5 64 UNIVERSITY OF CONNECTICUT **3459**
CONNECT: A NEW ENGLAND ALLIANCE FOR PHOTONICS TECH NOLOGY DEPLOYMENT PROJECT IN SUPPORT OF TRP PRGRM
08/02/1994 – 08/02/1997 FY97: $0 Total: $369,000
Prin. Invest.: C ROYCHOUDHURI
Tech. Officer: GSFC/N MINNIFIELD
CASE Category: 49 – ENGINEERING, OTHER

NGT 30240 UNIVERSITY OF CONNECTICUT **3460**
GLOBAL CHANGE FELLOWSHIP PROGRAM
09/14/1994 – 08/31/1998 FY97: $0 Total: $66,000
Prin. Invest.: J SILANDER
Tech. Officer: HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 70422 UNIVERSITY OF CONNECTICUT **3461**
GRAD STUD RES PROG (UMDF)
08/22/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: D D STRAUSBAUGH
Tech. Officer: HQ/MA STOUTSENBERGER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 274 UNIVERSITY OF HARTFORD **3462**
JOVE
12/10/1992 – 05/31/1996 FY97: –$16,893 Total: $50,107
Prin. Invest.: L NAGURNEY
Tech. Officer: MSFC/F SIX
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 40037 UNIVERSITY OF HARTFORD **3463**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
08/15/1991 – 09/30/1997 FY97: –$21,415 Total: $1,107,336
Prin. Invest.: L S NAGURNEY
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40004 UNIVERSITY OF HARTFORD **3464**
GLOBE TEACHERS WORKSHOP (CONNECTICUT SPACE GRANT C
01/24/1997 – 05/14/1997 FY97: $19,998 Total: $19,998
Prin. Invest.: D P BUCKLEY
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40031 UNIVERSITY OF HARTFORD **3465**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA
12/30/1996 – 02/28/1998 FY97: $170,000 Total: $170,000
Prin. Invest.: L S NAGURNEY
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 1269 UNIVERSITY OF NEW HAVEN **3466**
JOVE RESEARCH
01/21/1997 – 08/31/1997 FY97: $37,340 Total: $37,340
Prin. Invest.: S D BOGAN
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 4821 WESLEYAN UNIVERSITY **3467**
PHOTOMETRIC STUDIES OF T TAURI STARS
06/18/1997 – 05/31/1998 FY97: $42,700 Total: $42,700
Prin. Invest.: D HERBST
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAGW 3632 WESLEYAN UNIVERSITY **3468**
PHOTOMETRIC STUDIES OF T TAURI STARS
05/28/1993 – 05/31/1997 FY97: $0 Total: $132,700
Prin. Invest.: W HERBST
Tech. Officer: HQ/J ANUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 2 5189 WESLEYAN UNIVERSITY **3469**
FIRST ELEDTRONIC MOLECULAR MODELING AND GRAPHICS C ONFER-ENCE
09/10/1996 – 11/30/1996 FY97: $0 Total: $2,000
Prin. Invest.: B HARDY
Tech. Officer: ARC/C LEVIT
CASE Category: 22 – COMPUTER SCIENCE

NAG 2 948 YALE UNIVERSITY **3470**
SYNAPTOGENESIS IN MICROGRAVITY
12/20/1994 – 11/30/1997 FY97: $81,842 Total: $234,933
Prin. Invest.: H S KESHISHIAN
Tech. Officer: ARC/W E HINDS, ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 3 1625 YALE UNIVERSITY **3471**
NUMERICAL MODELING OF FLAME–BALLS IN FUEL–AIR MIXT URES
06/22/1994 – 06/21/1998 FY97: $0 Total: $76,000
Prin. Invest.: M D SMOOKE
Tech. Officer: LERC/H D ROSS
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1688 YALE UNIVERSITY **3472**
SPRAY COMBUSTION AT NORMAL & REDUCED GRAVITY IN CO UNTER-FLOW & CO–FLOW CONFIGURATIONS
12/12/1994 – 12/14/1997 FY97: $139,004 Total: $383,863
Prin. Invest.: A GOMEZ
Tech. Officer: LERC/D STOCKER
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1752 YALE UNIVERSITY **3473**
PRESSURE DEPENDENCE OF MODERATE TEMPERATURE BENZEN E OXIDATION: EXPERIMENTAL AND MODELING RESULTS
05/31/1995 – 12/31/1996 FY97: $0 Total: $90,000
Prin. Invest.: Y CHAI, L PFEFFERLE
Tech. Officer: LERC/C LEE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1866 YALE UNIVERSITY **3474**
INVESTIGATION OF FUTURE MICROGRAVITY ATOMIC CLOCKS
05/09/1996 – 05/08/1998 FY97: $25,000 Total: $100,000
Prin. Invest.: P GIBBLE
Tech. Officer: LERC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 3 1935 YALE UNIVERSITY **3475**
RHEOLOGY OF CONCENTRATED EMULSLIONS
08/05/1996 – 05/31/2000 FY97: $68,000 Total: $190,000
Prin. Invest.: M LOEWENBERG
Tech. Officer: LERC/B SINGH
CASE Category: 43 – CHEMICAL ENGR

NAG 3 1939 YALE UNIVERSITY **3476**
COMPUTATIONAL & EXPERIMENTAL STUDY OF LAMINAR DIFF USION FLAMES IN A MICROGRAVITY ENVIRONMENT
08/05/1996 – 07/30/2000 FY97: $42,000 Total: $117,750
Prin. Invest.: M B LONG, M D SMOOKE
Tech. Officer: LERC/K J WEILAND, LERC/H D ROSS
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1951 YALE UNIVERSITY **3477**
DESING/INTERPRETATION OF MICROGRAVITY EXPERIMENT T O OBTAIN FLUID/SOLID BOUNDARY CONDITIONS IN NON–I
08/14/1996 – 08/31/2000 FY97: $0 Total: $99,999
Prin. Invest.: D E ROSNER
Tech. Officer: LERC/B S SINGH
CASE Category: 43 – CHEMICAL ENGR

NAG 5 736 YALE UNIVERSITY **3478**
SOLAR RADIUS–LUMINOSITY STUDIES
02/15/1986 – 07/14/1996 FY97: $0 Total: $319,362
Prin. Invest.: S SOFIA
Tech. Officer: GSFC/E J MAIER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2775 YALE UNIVERSITY **3479**
STUDIES OF GAMMA RAY BURSTS
11/01/1994 – 10/31/1996 FY97: $0 Total: $88,926
Prin. Invest.: B E SCHAEFER
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2795 YALE UNIVERSITY **3480**
THE SOLAR-STELLAR CONNECTION: THEORETICAL RESEARC H ON THE INTERNAL STRUCTURE AND DYNAMICS OF
12/01/1994 – 08/31/1997 FY97: $0 Total: $204,960
Prin. Invest.: P DEMARQUE
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2867 YALE UNIVERSITY **3481**
EVOLUTION OF MERGERS AND COLLISION REMNANTS IN GLO BULAR CLUSTERS
01/09/1995 – 01/14/1997 FY97: $0 Total: $42,000
Prin. Invest.: C D BALLYN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2892 YALE UNIVERSITY **3482**
SUPERCONDUCTING FILMS AND TUNNEL JUNCTIONS FOR SIN GLE-PHOTON X-RAY DETECTORS
02/13/1995 – 05/31/1998 FY97: $120,000 Total: $344,000
Prin. Invest.: D E PROBER
Tech. Officer: GSFC/S H MOSELEY, GSFC/A E SZYMKOWIAK
CASE Category: 13 – PHYSICS

NAG 5 3686 YALE UNIVERSITY **3483**
THE PROPAGATION OF VERY HIGH ENERGY PARTICLES THRO
01/14/1997 – 01/14/1998 FY97: $67,181 Total: $67,181
Prin. Invest.: P COPPI
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3710 YALE UNIVERSITY **3484**
ARE G PROTEINS MECHANOSENSORS FOR ENDOTHELIAL CELL
12/05/1996 – 10/31/1997 FY97: $106,810 Total: $106,810
Prin. Invest.: I M MILLS
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 3853 YALE UNIVERSITY **3485**
CLIMATE CHANGE AND HUMAN RESPONSE IN THE SEMI-ARID (148-65-80-27)
12/16/1996 – 12/14/1997 FY97: $399,291 Total: $399,291
Prin. Invest.: R B SMITH
Tech. Officer: GSFC/A J TUYAHOV
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3972 YALE UNIVERSITY **3486**
COASTAL WINDS AND ISLAND WAKES
03/05/1997 – 03/31/1998 FY97: $58,365 Total: $58,365
Prin. Invest.: R B SMITH
Tech. Officer: GSFC/R H THOMAS
CASE Category: 33 – OCEANOGRAPHY

NAG 5 6054 YALE UNIVERSITY **3487**
"MOLECULAR MECHANISMS REGULATING IGF-1 SYNTHESIS I
07/29/1997 – 03/31/1998 FY97: $139,557 Total: $139,557
Prin. Invest.: T MCCARTHY
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 6076 YALE UNIVERSITY **3488**
A DEEP ROSAT HRI SURVEY OF GALACTIC GLOBULAR CLUST
08/01/1997 – 07/31/1998 FY97: $3,115 Total: $3,115
Prin. Invest.: C BAILYN
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 8 947 YALE UNIVERSITY **3489**
FOAM METALLIC GLASS
01/19/1993 – 01/13/1996 FY97: $0 Total: $360,000
Prin. Invest.: R E APFEL
Tech. Officer: MSFC/D REISS
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 8 1127 YALE UNIVERSITY **3490**
INTERACTION AND AGGREGATION OF COLLOIDAL BIOLOGICA L PARTICLES & DROPLETS IN ELECTRICALLY DRIVEN FLO
03/01/1995 – 02/28/1997 FY97: $0 Total: $48,000
Prin. Invest.: M LOEWENBERG
Tech. Officer: MSFC/T Y MILLER, MSFC/D C CARTER
CASE Category: 43 – CHEMICAL ENGR

NAG 8 1351 YALE UNIVERSITY **3491**
NOVEL CONCEPTS IN ACOUSTROPHORESIS FOR BIO- TECHNOLOGY APPLICATIONS UNDER DIRECTION DR. APFEL.
05/23/1997 – 11/30/1997 FY97: $44,000 Total: $44,000
Prin. Invest.: R E APFEL
Tech. Officer: MSFC/C L TALLEY, MSFC/J ROGERS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 2469 YALE UNIVERSITY **3492**
WHEN STARS COLLIDE; COMPACT OBJECTS IN GLOBULAR CL USTERS
05/01/1991 – 12/31/1996 FY97: $0 Total: $422,122
Prin. Invest.: C BAILYN
Tech. Officer: HQ/G S KUTTER, HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 3563 YALE UNIVERSITY **3493**
INTREPRETATION OF ULTRAVIOLET AND VISIBLE OBSERVAT IONS OF METAL RICH GALAXIES
04/29/1993 – 12/31/1995 FY97: $0 Total: $180,000
Prin. Invest.: A OEMLER
Tech. Officer: HQ/R STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 3879 YALE UNIVERSITY **3494**
YALE UNIV; TERAHERTZ SUPERCONDUCTOR – HOT ELECTRON RECEIVERS; 12/1/93 NEW AWARD
02/16/1994 – 08/31/1997 FY97: $0 Total: $250,000
Prin. Invest.: D E PROBER
Tech. Officer: HQ/L J CAROFF, HQ/J M VRTILEK
CASE Category: 11 – ASTRONOMY

NAGW 4197 YALE UNIVERSITY **3495**
MODELING THE CO2-INDUCED THICKENING/THINNING OF THE GREENLAND AND ARTARCTIC ICE SHEETS
09/11/1994 – 09/30/1996 FY97: $0 Total: $269,966
Prin. Invest.: B SALTZMAN
Tech. Officer: HQ/R H THOMAS, HQ/J S THEON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4821 YALE UNIVERSITY **3496**
STATISTICAL ANALYSIS OF RED DWARF STARS
10/03/1995 – 08/31/1998 FY97: $0 Total: $34,135
Prin. Invest.: A R UPGREN
Tech. Officer: HQ/R A STACHNIK
CASE Category: 11 – ASTRONOMY

NAGW 5014 YALE UNIVERSITY **3497**
COASTAL WINDS AND ISLAND WAKES
03/22/1996 – 06/30/1997 FY97: $0 Total: $63,945
Prin. Invest.: R B SMITH
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 33 – OCEANOGRAPHY

NAGW 5069 YALE UNIVERSITY **3498**
GEOCHEMICAL CYCLES AND THE HISTORY OF WEATHERING O N MARS
05/23/1996 – 04/30/1997 FY97: $0 Total: $25,000
Prin. Invest.: M SCHAEFER
Tech. Officer: HQ/H BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 30315 YALE UNIVERSITY **3499**
GLOBAL CHANGE FELLOWSHIP PROGRAM
09/05/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: P K BARTEN
Tech. Officer: HQ/N MAYNARD, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 51037 YALE UNIVERSITY **3500**
GARDUATE STUDENT RESEARCHERS PROGRAM
05/05/1993 – 06/30/1997 FY97: $0 Total: $77,000
Prin. Invest.: D PROBER
Tech. Officer: JPL/C HIX
CASE Category: 13 – PHYSICS

NGT 51209 YALE UNIVERSITY **3501**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/07/1994 – 06/30/1996 FY97: $0 Total: $44,000
Prin. Invest.: D E PROBER
Tech. Officer: GSFC/G SOFFEN
CASE Category: 13 – PHYSICS

NGT 51395 YALE UNIVERSITY **3502**
GSRP
06/16/1995 – 12/31/1996 FY97: $0 Total: $22,000
Prin. Invest.: L J GUIDO
Tech. Officer: JPL/C HICKS
CASE Category: 45 – ELECTRICAL ENGR

NGT 90265 YALE UNIVERSITY **3503**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
12/19/1994 – 08/14/1996 FY97: $0 Total: $48,000
Prin. Invest.: R WEBER
Tech. Officer: HQ/D K RUSSELL
CASE Category: 13 – PHYSICS

NGT 5 20 YALE UNIVERSITY **3504**
SINGLE PHOTON X-RAY SPECTROMETRS USING SUPERCONDUC TING TUNNEL JUNCTIONS
07/19/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: D PROBER
Tech. Officer: GSFC/G SOFFEN
CASE Category: 11 – ASTRONOMY

NGT 5 30046 YALE UNIVERSITY **3505**
THIRD YEAR FUNDING: "CHARACTERIZING LINKAGES BETW CRYPTOS-PORIDIUM AND LAND USE USING REMOTE SENSING
09/04/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: P K BARTEN
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50042 YALE UNIVERSITY **3506**
TERAHERTZ SUPERCONDUCTING HETERODYNE RECEIVERS
08/04/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: PROBER
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50067 YALE UNIVERSITY **3507**
SPACE BASED LASER-COOLED ATOMIC CLOCKS
08/26/1997 – 06/30/1998 FY97: $21,600 Total: $21,600
Prin. Invest.: K GIBBLE
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 50082 YALE UNIVERSITY **3508**
SUPERCONDUCTING TUNNEL JUNCTION DETECTORS FOR SING IN VISIBLE AND ULTRAVIOLET ASTRONOMY
09/05/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: DANIEL
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 41 – AERONAUTICAL ENGNR

DELAWARE

NAG 8 248 DELAWARE STATE COLLEGE **3509**
JOVE
08/10/1992 – 12/31/1996 FY97: -$426 Total: $69,535
Prin. Invest.: P DIMARIC
Tech. Officer: MSFC/C R CHAPPELL
CASE Category: 11 – ASTRONOMY

NAG 1 1383 UNIVERSITY OF DELAWARE **3510**
TESTING AND CHARACTERIZATION OF THROUGH-THE-THICK NESS PROPERTIES OF MULTI-DIRECTIONALLY REINFORCED
02/20/1992 – 11/12/1995 FY97: -$1 Total: $172,999
Prin. Invest.: T CHOU, A PARVIZI-MAJIDI
Tech. Officer: LARC/W C JACKSON, LARC/C E HARRIS
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 1815 UNIVERSITY OF DELAWARE **3511**
STEROSCOPIC PIV USING ANGULAR DISPLACEMENT FOR TUR BULENCE MEASUREMENTS BEHIND A WING FLAP
03/05/1996 – 03/05/1998 FY97: $0 Total: $40,000
Prin. Invest.: A K PRASAD
Tech. Officer: LARC/K B PASCHAL, LARC/C S YAO
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1424 UNIVERSITY OF DELAWARE **3512**
SURFACTANT-BASED CRITICAL PHENOMENA IN MICROGRAVIT Y
01/11/1993 – 12/31/1996 FY97: $0 Total: $300,000
Prin. Invest.: E W KALER, M E PAULAITIS
Tech. Officer: LERC/R A WILKINSON
CASE Category: 13 – PHYSICS

NAG 3 1920 UNIVERSITY OF DELAWARE **3513**
FREE-SURFACE AND CONTACT-LINE MOTION OF LIQUIDS IN A MICROGRAVITY ENVIRONMENT
07/07/1996 – 07/10/2000 FY97: $48,000 Total: $118,000
Prin. Invest.: L W SCHWARTZ
Tech. Officer: LERC/M W WEISLOGEL
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1955 UNIVERSITY OF DELAWARE **3514**
SURFACANT-BASED CRITICAL PHENOMENA IN MICROGRAVITY
08/19/1996 – 08/31/2000 FY97: $40,000 Total: $98,500
Prin. Invest.: E W KALER, M E PAULATIS
Tech. Officer: LERC/B S SINGH
CASE Category: 43 – CHEMICAL ENGR

NAG 5 2365 UNIVERSITY OF DELAWARE **3515**
THE HOT WHITE DWARF STAR CD 394
09/09/1993 – 09/14/1996 FY97: $0 Total: $66,454
Prin. Invest.: H L SHIPMAN
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 4829 UNIVERSITY OF DELAWARE **3516**
AN INTEGRATED SYSTEM FOR WATER BUDGET CLOSURE OVER MASS: A TRMM VALIDATION EFFORT
07/03/1997 – 06/30/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: C J WILLMOTT
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 5054 UNIVERSITY OF DELAWARE **3517**
ACCELERATION OF COSMIC RAYS IN WIND-BLOWN STRUC- TURES AROUND SUPERNOVAS
03/27/1996 – 02/28/1998 FY97: $40,000 Total: $80,000
Prin. Invest.: T K GAISSER
Tech. Officer: GSFC/H C NEEDLEMAN
CASE Category: 13 – PHYSICS

NAG 8 1242 UNIVERSITY OF DELAWARE **3518**
MOLECULARLY TAILORED SURFACES VIA SELF ASSEMBLY PROCESS
04/25/1996 – 04/24/1998 FY97: $30,000 Total: $90,000
Prin. Invest.: M A BARTEALL
Tech. Officer: MSFC/C R TALLEY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1346 UNIVERSITY OF DELAWARE **3519**
PROTEIN CRYSTALLIZATION IN COMPLEX FLUIDS
05/23/1997 – 11/30/1997 FY97: $73,000 Total: $73,000
Prin. Invest.: E W KALER, D
Tech. Officer: MSFC/D SMITH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 9 789 UNIVERSITY OF DELAWARE **3520**
STUDIES OF COASTAL DYNAMICS W/SPACE SHUTTLE DATA
06/28/1995 – 07/01/1996 FY97: -$31 Total: $9,969
Prin. Invest.: D KLEMAS
Tech. Officer: JSC/S RUNCO
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 4355 UNIVERSITY OF DELAWARE **3521**
FLOODPLAIN AND RIVER DYNAMICS IN THREE LARGE SOUTH AMERICAN RIVERS
03/15/1995 – 01/31/1997 FY97: $0 Total: $82,706
Prin. Invest.: C J WILLMOTT, C J VOROSMARTY, J M MELACK
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4771 UNIVERSITY OF DELAWARE **3522**
APPLICATION OF TOPEX/POSEIDON DATA TO OCEANIC DYNA MICS
09/13/1995 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: X H YAN
Tech. Officer: HQ/M BALTUCK, HQ/D BUTLER
CASE Category: 33 – OCEANOGRAPHY

NAGW 4812 UNIVERSITY OF DELAWARE **3523**
MASSES AND RADII OF WHITE DWARF STARS HIPPARCOS DA TA ANALY-SIS PROPOSAL
10/03/1995 – 08/31/1996 FY97: $0 Total: $34,135
Prin. Invest.: D SHIPMAN
Tech. Officer: HQ/R A STACHNIK
CASE Category: 11 – ASTRONOMY

NCC 3 429 UNIVERSITY OF DELAWARE **3524**
AIRCRAFT REDUCED GRAVITY ENVIRONMENT OPTIMIZATION: MODELING, ANALYSIS, & DESIGN SUPPORT
09/01/1995 – 09/30/1997 FY97: -$94,766 Total: $4,531
Prin. Invest.: A P ALLAN
Tech. Officer: LERC/K A LOGSDON
CASE Category: 49 – ENGINEERING, OTHER

NGT 40023 UNIVERSITY OF DELAWARE **3525**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
04/03/1991 – 05/28/1997 FY97: $0 Total: $1,179,000
Prin. Invest.: N F NESS
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51347 UNIVERSITY OF DELAWARE **3526**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/28/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: E W KALER
Tech. Officer: HQ/G A LESANE
CASE Category: 43 – CHEMICAL ENGR

NGT 51389 UNIVERSITY OF DELAWARE **3527**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/16/1995 – 06/30/1998 FY97: $0 Total: $44,000
Prin. Invest.: A M LENHOFF
Tech. Officer: HQ/G LESANE
CASE Category: 43 – CHEMICAL ENGR

NGT 5 40024 UNIVERSITY OF DELAWARE **3528**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGR
12/19/1996 – 02/28/1998 FY97: $205,000 Total: $205,000
Prin. Invest.: N F NESS
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

DISTRICT OF COLUMBIA

NGT 90057 GALLAUDET UNIVERSITY **3529**
UNDERGRADUATE STUDENT RESEARCHERS PRG
11/26/1991 – 08/31/1996 FY97: $0 Total: $181,152
Prin. Invest.: G MCGAUGHRAN
Tech. Officer: HQ/D RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90075 GALLAUDET UNIVERSITY **3530**
NGT–90075/GALLAUDET UNIV/UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
09/12/1992 – 08/14/1996 FY97: –$5,983 Total: $42,017
Prin. Invest.: G MCGAUGHRAN
Tech. Officer: HQ/D RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90182 GALLAUDET UNIVERSITY **3531**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/27/1993 – 08/14/1996 FY97: –$4,847 Total: $31,153
Prin. Invest.: G MCGAUGHRAN
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90275 GALLAUDET UNIVERSITY **3532**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
12/16/1994 – 08/14/1996 FY97: $0 Total: $17,450
Prin. Invest.: G MCGAUGHRAN
Tech. Officer: HQ/D K RUSSELL
CASE Category: 13 – PHYSICS

NGT 5 90006 GALLAUDET UNIVERSITY **3533**
UNDERGRADUATE STUDENT AWARDS FOR RESEACH (USAR)
12/30/1996 – 08/14/1997 FY97: $57,112 Total: $57,112
Prin. Invest.: G MCGAUGHRAN
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 49 – ENGINEERING, OTHER

NAG 1 1353 GEORGE WASHINGTON UNIVERSITY **3534**
RESEARCH AND EDUCATION PROGRAM FOR NON–TRADITIONAL ENGINEERING STUDENTS IN THE JIAFS
10/09/1991 – 11/30/1997 FY97: $68,988 Total: $501,405
Prin. Invest.: J L WHITESIDES
Tech. Officer: LARC/R L YANG, LARC/E J PRIOR
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 697 GEORGE WASHINGTON UNIVERSITY **3535**
MATHEMATICAL MODELING OF ENERGY MINIMIZING OFF– DESIGN SHAPES OF LARGE SCIENTIFIC BALLOONS
01/25/1993 – 05/19/1998 FY97: $96,480 Total: $400,576
Prin. Invest.: F BAGINSKI
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/I S SMITH
CASE Category: 21 – MATHEMATICS

NAG 5 2325 GEORGE WASHINGTON UNIVERSITY **3536**
SYNERGISTIC USE OF ACTIVE AND PASSIVE MICROWAVE RE MOTE SENSING FOR RETRIEVING SOIL MOISTURE . . .
07/16/1993 – 03/31/1997 FY97: $16,005 Total: $292,163
Prin. Invest.: N CHAUHAN
Tech. Officer: GSFC/P O'NEILL, GSFC/E ENGMAN
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAG 5 3150 GEORGE WASHINGTON UNIVERSITY **3537**
MEASUREMENT AND MODELING OF VEGETATIVE TERRAIN FOR SOIL MOISTURE RETRIEVAL
01/18/1996 – 01/14/1997 FY97: $0 Total: $23,500
Prin. Invest.: R H LANG
Tech. Officer: GSFC/P E O'NEILL, GSFC/E T ENGMAN
CASE Category: 11 – ASTRONOMY

NAG 5 3957 GEORGE WASHINGTON UNIVERSITY **3538**
ENVIRONMENTAL SECURITY, SUSTAINABLE DEVELOPMENT, A GLOBAL OBSERVING STRATEGY
03/03/1997 – 08/14/1998 FY97: $182,859 Total: $182,859
Prin. Invest.: D WILLIAMSON
Tech. Officer: GSFC/J GASCH
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4294 GEORGE WASHINGTON UNIVERSITY **3539**
FUNDING FOR UNSOLICITED PROPOSAL ENTITLED: "EFFEC VEGETATION CANOPIES ON MICROWAVE REMOTE SENSING O
03/28/1997 – 03/31/1998 FY97: $91,704 Total: $91,704
Prin. Invest.: N CHAUHAN
Tech. Officer: GSFC/L L THOMPSON
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 4800 GEORGE WASHINGTON UNIVERSITY **3540**
MEASUREMENT AND MODELING OF VEGETATIVE TERRAIN FOR RETRIEVAL
06/20/1997 – 04/30/1998 FY97: $23,000 Total: $23,000
Prin. Invest.: R LANG
Tech. Officer: GSFC/P E O'NEILL
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 5160 GEORGE WASHINGTON UNIVERSITY **3541**
"LINEAGE ANALYSIS OF AXIS FORMATION UNDER NOVEL GR
07/18/1997 – 06/30/1998 FY97: $147,356 Total: $147,356
Prin. Invest.: S HUANG
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 6081 GEORGE WASHINGTON UNIVERSITY **3542**
STUDY OF VENUS NEUTRAL UPPER ATMOSPHERE USING MAGE
08/11/1997 – 07/31/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: D KEATING
Tech. Officer: GSFC/S HOWARD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 1294 GEORGE WASHINGTON UNIVERSITY **3543**
FORWARD INCENTIVES FOR PRIVATE FINANCING OF THE REUSABLE LAUNCH VEHICLE
04/17/1996 – 06/30/1997 FY97: $0 Total: $97,709
Prin. Invest.: J M LOGSTON
Tech. Officer: MSFC/R D ROMANS
CASE Category: 49 – ENGINEERING, OTHER

NAGW 2071 GEORGE WASHINGTON UNIVERSITY **3544**
DISCRETE RANDOM MODELING OF VEGETATION
05/02/1990 – 12/31/1996 FY97: $0 Total: $620,000
Prin. Invest.: R H LANG
Tech. Officer: HQ/G ASRAR, HQ/T J PIEPER
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 4516 GEORGE WASHINGTON UNIVERSITY **3545**
LINEAGE ANALYSIS OF AXIS FORMATION UNDER NOVEL GRA VITY
05/13/1995 – 09/30/1997 FY97: $0 Total: $282,484
Prin. Invest.: S HUANG
Tech. Officer: HQ/T K SCOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4646 GEORGE WASHINGTON UNIVERSITY **3546**
RESEARCH INTO ECONOMIC METHODOLOGY AND MODELS FOR ASSESSING IMPACTS OF NASA LIFE SCIENCE RESEARCH
07/28/1995 – 09/30/1997 FY97: $0 Total: $149,150
Prin. Invest.: H R HERTZFELD
Tech. Officer: HQ/V R THORNE
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4873 GEORGE WASHINGTON UNIVERSITY **3547**
POTENTIAL CONTRIBUTIONS OF EARTH OBSERVATIONS TO M EETING THE CHALLENGES OF ENVIRONMENTAL SECURITY
12/18/1995 – 07/01/1997 FY97: $0 Total: $274,966
Prin. Invest.: R A WILLIAMSON
Tech. Officer: HQ/R C HARRISS, HQ/N MAYNARD
CASE Category: 39 – ENVIRONMENTALSCI, OTHER

NAGW 4927 GEORGE WASHINGTON UNIVERSITY **3548**
SCIENCE AND ENGINEERING APPRENTICE PROGRAM
02/20/1996 – 03/31/1997 FY97: $0 Total: $23,326
Prin. Invest.: D KRUPSAW
Tech. Officer: HQ/P BOELLNER
CASE Category: 49 – ENGINEERING, OTHER

NAS 1 19699 GEORGE WASHINGTON UNIVERSITY **3549**
AERONAUTICAL, ASTRONAUTICAL, MATERIALS SCIENCE, COMPUTER SCIENCE AND RELATED DISCIPLINE SUPPORT
08/07/1992 – 08/07/1998 FY97: $11,342 Total: $384,439
Prin. Invest.:
Tech. Officer: LARC/R L YANG, LARC/E J PRIOR
CASE Category: 41 – AERONAUTICAL ENGNR

NAS 3 97137 GEORGE WASHINGTON UNIVERSITY **3550**
RESEARCH FOR SATELLITE AND TERRESTRIAL INTEROPERAB ILITY
05/07/1997 – 12/31/1997 FY97: $99,467 Total: $99,467
Prin. Invest.: B I EDELSON, R DIETZ, N R HELM
Tech. Officer: LERC/S W MAINGER, LERC/K BHASIN
CASE Category: 49 – ENGINEERING, OTHER

NCC 1 14 GEORGE WASHINGTON UNIVERSITY **3551**
AEROACOUSTICS RESEARCH PROGRAM IN JIAFS
05/16/1979 – 10/31/1997 FY97: $265,766 Total: $3,229,016
Prin. Invest.: H LIEBOWITZ, M K MYERS
Tech. Officer: LARC/L R CLARK, LARC/D G STEPHENS
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 1 24 GEORGE WASHINGTON UNIVERSITY **3552**
PROGRAMS OF RESEARCH IN FLIGHT SCIENCES
08/08/1979 – 01/31/1998 FY97: $305,443 Total: $3,388,570
Prin. Invest.: H LIEBOWITZ, J L WHITESIDES
Tech. Officer: LARC/R T BRIGHT
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 1 29 GEORGE WASHINGTON UNIVERSITY **3553**
RESEARCH PROGRAM IN FLIGHT DYNAMICS IN THE JIAPS AT THE NASA LANGLEY RESEARCH CENTER
11/16/1979 – 11/30/1997 FY97: $135,001 Total: $2,554,271
Prin. Invest.: H LIEBOWITZ
Tech. Officer: LARC/P C MURPHY, LARC/P C MURPHY
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 1 47 GEORGE WASHINGTON UNIVERSITY **3554**
CORE PROGRAM IN THE JOINT INSTITUTE FOR ADVANCEMENT OF FLIGHT SCIENCES AT THE NASA–LANGLEY RESEARCH
11/05/1980 – 10/31/1997 FY97: $250,000 Total: $5,089,012
Prin. Invest.: J L WHITESIDES, H W LIEBOWITZ
Tech. Officer: LARC/R L YANG, LARC/M F CARD
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 1 104 GEORGE WASHINGTON UNIVERSITY **3555**
A PROGRAM OF RESEARCH & EDUCATION IN ASTRONAUTICS IN JIAFS
04/30/1986 – 01/31/1998 FY97: $245,569 Total: $2,041,643
Prin. Invest.: R H TOLSON
Tech. Officer: LARC/L F ROWELL
CASE Category: 42 – ASTRONAUTICAL ENGR

NCC 1 208 GEORGE WASHINGTON UNIVERSITY **3556**
PROGRAM OF RESEARCH AND EDUCATION IN AEROSPACE STR UCTURES
12/20/1994 – 11/30/1997 FY97: $130,000 Total: $431,037
Prin. Invest.: R H TOLSON
Tech. Officer: LARC/E C WYNNE
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 1 217 GEORGE WASHINGTON UNIVERSITY **3557**
EXPERIMENTS IN THE THERMAL AND FLUID SCIENCES IN THE JOINT INSI-TUTE FOR ADVANCEMENT OF FLIGHT
09/11/1995 – 03/10/1998 FY97: $81,674 Total: $231,833
Prin. Invest.: A D CUTLER
Tech. Officer: LARC/G S DISKIN, LARC/M W SMITH
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 5 51 GEORGE WASHINGTON UNIVERSITY **3558**
PROGRAM FOR RESEARCH AND EDUCATION IN SPACE TECHNO LOGY
12/14/1992 – 05/31/1997 FY97: $282,621 Total: $2,706,073
Prin. Invest.: G FRIEDER, N BEDEWI
Tech. Officer: GSFC/T E HUBER, GSFC/J R ROBINSON
CASE Category: 42 – ASTRONAUTICAL ENGR

NCC 5 53 GEORGE WASHINGTON UNIVERSITY **3559**
DISTRIBUTION AND STRUCTURE OF BIOMASS IN BOREAL FO REST ECO-SYSTEMS
06/17/1993 – 06/30/1998 FY97: $20,000 Total: $171,351
Prin. Invest.: R LANG
Tech. Officer: GSFC/F G HALL, GSFC/P SELLERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 40056 GEORGE WASHINGTON UNIVERSITY **3560**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
03/01/1995 – 09/30/1997 FY97: $0 Total: $341,000
Prin. Invest.: J M LOGSDON
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 2 52223 GEORGE WASHINGTON UNIVERSITY **3561**
SCIENCE & ENGINEERING APPRENTICE PROGRAM
06/05/1997 – 03/31/1998 FY97: $24,500 Total: $24,500
Prin. Invest.: M KRUPSAW
Tech. Officer: ARC/J G GRIGGS, ARC/T WILSON
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NGT 5 30 GEORGE WASHINGTON UNIVERSITY **3562**
IMAGE RESTORATION AND NOISE REMOVAL IN HOLOGRAPHIC DATA
07/15/1996 – 08/14/1997 FY97: $22,000 Total: $44,000
Prin. Invest.: M H LOEW
Tech. Officer: GSFC/G A SOFFEN, GSFC/J DORBAND
CASE Category: 22 – COMPUTER SCIENCE

NGT 5 40058 GEORGE WASHINGTON UNIVERSITY **3563**
THE NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PR
02/14/1997 – 02/28/1998 FY97: $170,000 Total: $170,000
Prin. Invest.: J M LOGSDON
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NSG 5109 GEORGE WASHINGTON UNIVERSITY **3564**
DECODING & PERFORMANCE EVALUATION OF ERROR CODING CODES
07/16/1976 – 09/30/1996 FY97: $0 Total: $1,026,734
Prin. Invest.: H J HELGERT
Tech. Officer: GSFC/W POLAND JR, GSFC/W H MILLER
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 6343 GEORGETOWN UNIVERSITY **3565**
3D ORAM DOSIMETER FOR SPACE RADIATION ENVIRONMENT
09/19/1997 – 02/14/1998 FY97: $82,406 Total: $82,406
Prin. Invest.: D MOSCOVITCH
Tech. Officer: GSFC/W SCHIMMERLING
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 6356 GEORGETOWN UNIVERSITY **3566**
HUMAN ENZYMATIC REPAIR OF RADIATION–INDUCED DNA BR
09/29/1997 – 02/14/1999 FY97: $165,624 Total: $165,624
Prin. Invest.: T JORGENSEN
Tech. Officer: GSFC/B SIEGEL
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4395 GEORGETOWN UNIVERSITY **3567**
3D ORAM DOSIMETER FOR SPACE RADIATION ENVIRONMENTS
04/19/1995 – 02/14/1997 FY97: $0 Total: $205,399
Prin. Invest.: M MOSCOVITCH
Tech. Officer: HQ/F M SULZMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4396 GEORGETOWN UNIVERSITY **3568**
HUMAN ENZYMATIC REPAIR OF RADIATION–INDUCED DNA BR EAKS
04/19/1995 – 02/14/1997 FY97: $0 Total: $303,658
Prin. Invest.: T J JORGENSEN
Tech. Officer: HQ/F M SULZMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NGT 5 30043 GEORGETOWN UNIVERSITY **3569**
SURFACE CHEMISTRY OF POLAR STRATOSPHERIC CLOUD PAR
12/30/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: J M HICKS
Tech. Officer: GSFC/G ASRAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 3 1406 HOWARD UNIVERSITY **3570**
DEVELOPMENT OF CUBIC SILICON CARBIDE
12/22/1992 – 07/21/1996 FY97: $0 Total: $463,206
Prin. Invest.: G L HARRIS
Tech. Officer: LERC/J A POWELL
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1426 HOWARD UNIVERSITY **3571**
DEVELOPMENT OF AN ENERGY & EXPERT SYSTEMS INSTITUT E
03/26/1993 – 09/30/1997 FY97: $0 Total: $1,187,477
Prin. Invest.: J A MOMOH
Tech. Officer: LERC/J F SELLERS
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1445 HOWARD UNIVERSITY **3572**
HOWARD UNIVERSITY/NASA LEWIS COOPERATIVE RESEARCH STUDIES
03/25/1993 – 08/19/1997 FY97: $0 Total: $801,962
Prin. Invest.: R REISS
Tech. Officer: LERC/D F NOGA
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1661 HOWARD UNIVERSITY **3573**
DEVELOPMENT & IMPLEMENTATION OF AN ADAPTIVE REAL–T IME COTROLLER FOR PEMANENT MAGNET BRUSHLESS
08/08/1994 – 12/07/1997 FY97: $0 Total: $159,999
Prin. Invest.: , A RABAAL
Tech. Officer: LERC/D F NOGA
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1675 HOWARD UNIVERSITY **3574**
THE HYBRID TURBINE–ELECTROC VEHICLE CONTROL SYSTEM S
10/14/1994 – 10/31/1996 FY97: $0 Total: $100,000
Prin. Invest.: J A MOMOH
Tech. Officer: LERC/L A VITERNA
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1677 HOWARD UNIVERSITY **3575**
FREE RADICAL SPECTROSCOPY AND KINETICS IN MICROGRA VTY COM-BUSTION
10/15/1994 – 10/14/1997 FY97: $80,158 Total: $263,359
Prin. Invest.: P MISRA
Tech. Officer: LERC/N D PILTCH
CASE Category: 13 – PHYSICS

NAG 3 1743 HOWARD UNIVERSITY **3576**
DESIGN OF POWER SYSTEMS ARCHITECTURE FOR SAMLL SPA CECRAFT SYSTEM
07/18/1995 – 06/17/1997 FY97: $0 Total: $100,000
Prin. Invest.: J A MOMOH
Tech. Officer: LERC/J J NAINIGER
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1907 HOWARD UNIVERSITY **3577**
DETERMINATION OF THERMAL STATE OF CHARGE IN SOLAR HEAT RECEIVERS
05/21/1996 – 05/20/1998 FY97: $100,000 Total: $200,000
Prin. Invest.: E K GLAPKE
Tech. Officer: LERC/T KERSLAKE
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1931 HOWARD UNIVERSITY **3578**
ADVANCED INTELLIGENT SYSTEM APPLICATION TO LOAD FO RECASTING & CONTROL FOR HYBRID ELECTRIC BUS
07/24/1996 – 05/22/1998 FY97: $94,500 Total: $189,000
Prin. Invest.: J A MOMOH
Tech. Officer: LERC/L VITERNA
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1978 HOWARD UNIVERSITY **3579**
AEROSPACE POWER SYSTEM AUTOMATION
10/25/1996 – 10/24/1999 FY97: $100,000 Total: $100,000
Prin. Invest.: J A MOMOH
Tech. Officer: LERC/J L DOLCE
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 2027 HOWARD UNIVERSITY **3580**
GROWTH AND REALIZATION OF DEVICES IN LARGE AREA CU BIC SIC
04/04/1997 – 09/30/1997 FY97: $101,854 Total: $101,854
Prin. Invest.: M G SPENCER
Tech. Officer: LERC/J A POWELL
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 2030 HOWARD UNIVERSITY **3581**
EXPERIMENTAL IMPLEMENTATION OF HIGH PERFORMANCE AC DRIVES USING NERAL DESIGNS
04/04/1997 – 03/16/1998 FY97: $70,000 Total: $70,000
Prin. Invest.: A RUBARI
Tech. Officer: LERC/D F NOGA, LERC/D M KAW KAM
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 156 HOWARD UNIVERSITY **3582**
REAL-TYPE OBSERVATIONS OF X-RAY DIFFRACTION PATTERNS
07/01/1981 – 05/31/1997 FY97: $0 Total: $103,625
Prin. Invest.: T TSANG, D Y CHUNG
Tech. Officer: GSFC/J I TROMBKA
CASE Category: 13 – PHYSICS

NAG 5 1017 HOWARD UNIVERSITY **3583**
SUPERCONDUCTING MATERIALS FOR SPACE APPLICATIONS
10/15/1987 – 02/14/1998 FY97: $0 Total: $1,459,000
Prin. Invest.: A N THORPE, H HOJAJI, A BARKATT
Tech. Officer: GSFC/S R BREON, GSFC/M D JHABVALA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 1049 HOWARD UNIVERSITY **3584**
RESEARCH RELATIVE TO OPTICALLY CONTROLLED MILLIMETER WAVE DEVICES
05/15/1988 – 12/31/1996 FY97: $0 Total: $510,961
Prin. Invest.: R CHOWDHARY, Y WANG, C E LEINKRAM
Tech. Officer: GSFC/A S BURGESS
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 1057 HOWARD UNIVERSITY **3585**
GLASS CORROSION IN NATURAL ENVIRONMENTS
06/15/1988 – 08/14/1996 FY97: $0 Total: $222,000
Prin. Invest.: A N THORPE, A BARKATT
Tech. Officer: GSFC/W B SULLIVAN, GSFC/J O'KEEFE
CASE Category: 13 – PHYSICS

NAG 5 2904 HOWARD UNIVERSITY **3586**
SOFTWARE METRICS AND CERTIFICATION OF REUSABLE SOF TWARE COMPONENTS
03/10/1995 – 11/14/1995 FY97: $0 Total: $6,873
Prin. Invest.: R J LEACH
Tech. Officer: GSFC/J N BRUNER, GSFC/J T KOSLOSKY
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2944 HOWARD UNIVERSITY **3587**
PUBLIC SERVICE INTERNSHIPS FOR GRADUATE SCHOOL OF ARTS AND SCIENCES
06/05/1995 – 05/31/1997 FY97: $0 Total: $176,550
Prin. Invest.: M C WOODWARD
Tech. Officer: GSFC/D MENCHAN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 3141 HOWARD UNIVERSITY **3588**
CHARACTERIZATION, EVALUATION AND FABRICATION OF HIGH TEMPERATURE SUPERCONDUCTING MATERIALS FOR ...
11/03/1995 – 11/14/1997 FY97: $213,000 Total: $426,000
Prin. Invest.: A N THORPE
Tech. Officer: GSFC/M DIPIRRO
CASE Category: 11 – ASTRONOMY

NAG 5 3156 HOWARD UNIVERSITY **3589**
APPLIED RESEARCH STUDY AND REPORT OF REUSABLE SOFT WARE COMPONENTS.
02/01/1996 – 12/14/1996 FY97: $0 Total: $10,740
Prin. Invest.: R J LEACH
Tech. Officer: GSFC/J N BRUNER, GSFC/J T KOSLOSKY
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 3921 HOWARD UNIVERSITY **3590**
APPLIED RESEARCH, STUDY AND REPORT OF "RESEARCH IN COST MODELING" REFERENCE UNSOLICITED PROPOSALCON
02/19/1997 – 02/14/1998 FY97: $11,235 Total: $11,235
Prin. Invest.: A MARSCHER
Tech. Officer: GSFC/J SWANK
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 4764 HOWARD UNIVERSITY **3591**
LABORATORY STUDIES OF THE PHOTOCHEMISTRY OF ACETYL TITAN'S ATMOSPHERE
06/13/1997 – 05/31/1998 FY97: $45,000 Total: $45,000
Prin. Invest.: D OKABE
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 6066 HOWARD UNIVERSITY **3592**
THE DEVELOPMENT OF A NEW GENERATION TRAPPED RADIAT
07/28/1997 – 07/31/1998 FY97: $95,299 Total: $95,299
Prin. Invest.: R BOURGIN
Tech. Officer: GSFC/S FUNG
CASE Category: 21 – MATHEMATICS

NAG 9 977 HOWARD UNIVERSITY **3593**
CAFFEINE METBOLISM–THE PHARMACOKINETICS OF SPACE FLIGHT
09/30/1997 – 07/31/1998 FY97: $195,330 Total: $195,330
Prin. Invest.: M W COOMES
Tech. Officer: JSC/L PUTCHA
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 785 HOWARD UNIVERSITY **3594**
PHOTOCHEMISTRY OF ACETYLENES – LAB STUDIES
08/01/1985 – 06/30/1998 FY97: $0 Total: $604,072
Prin. Invest.: H OKABE
Tech. Officer: HQ/J T BERGSTRALH, HQ/W L QUAIDE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 2950 HOWARD UNIVERSITY **3595**
CENTER FOR THE STUDY OF TERRESTRIAL AND EXTRATERRE STRIAL ATMOSPHERES
03/06/1992 – 12/31/1996 FY97: $0 Total: $8,724,936
Prin. Invest.: A N THORNE
Tech. Officer: HQ/N E MASSENBERS, HQ/S HARTMAN
CASE Category: 13 – PHYSICS

NCC 3 504 HOWARD UNIVERSITY **3596**
IMPLEMENTATION OF REDUCED ORDER H ROBUST CONTROL L AWS FOR EXPENDABLE LAUNCH VEHICLES
09/20/1996 – 03/28/1997 FY97: $0 Total: $75,164
Prin. Invest.: D FAINOH
Tech. Officer: LERC/D NOCA, LERC/D K LE
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 3 571 HOWARD UNIVERSITY **3597**
EXPERIMENTAL EVALUATION OF MOTOR DRIVE TECHNOLOGIE S FOR FUTURE AEROSPACE APPLICATIONS
08/01/1997 – 07/31/1999 FY97: $159,549 Total: $159,549
Prin. Invest.: A RUBAAI, M E ELBULUK
Tech. Officer: LERC/M D KANKAM
CASE Category: 45 – ELECTRICAL ENGR

NCC 5 184 HOWARD UNIVERSITY **3598**
TERRESTRIAL AND EXTRATERRESTRIAL ATMOSPHERES
03/12/1997 – 02/28/1998 FY97: $999,194 Total: $999,194
Prin. Invest.: A N THORPE
Tech. Officer: GSFC/G A SOFFEN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 5 192 HOWARD UNIVERSITY **3599**
A CHANGE MANAGEMENT INTERVENTION IN THE MUSPIN PRO
05/15/1997 – 05/14/1998 FY97: $55,000 Total: $55,000
Prin. Invest.: E DORSEY
Tech. Officer: GSFC/J HARRINGTN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 5 197 HOWARD UNIVERSITY **3600**
CSTEA HBCU ACADEMIC AND RESEARCH CONSORTIUM (CHARC
05/22/1997 – 05/31/1998 FY97: $1,100,000 Total: $1,100,000
Prin. Invest.: A N THORPE
Tech. Officer: GSFC/W R HOEGY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 5 208 HOWARD UNIVERSITY **3601**
FUNDING FOR PUBLIC SERVICE INTERN PROGRAM
06/17/1997 – 01/31/1998 FY97: $80,660 Total: $80,660
Prin. Invest.: D WOODARD
Tech. Officer: GSFC/D MENCHAN
CASE Category: 49 – ENGINEERING, OTHER

NGT 10002 HOWARD UNIVERSITY **3602**
TRAINING TEACHERS FOR MIDDLE SCHOOL SCIENCE AND MA THEMATICS EDUCATION
06/17/1993 – 12/14/1995 FY97: $0 Total: $84,925
Prin. Invest.: M W THOMPSON
Tech. Officer: HQ/D V GALLAWAY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 60011 HOWARD UNIVERSITY **3603**
SUMMER FACULTY FELLOWSHIP PROGRAM (AERONAUTICS & SPACE RESEARCH
05/16/1995 – 12/31/1996 FY97: $0 Total: $399,706
Prin. Invest.: J B HALPERN
Tech. Officer: HQ/A S MCGEE, HQ/E T SCHWARTZ
CASE Category: 49 – ENGINEERING, OTHER

NGT 5 37 HOWARD UNIVERSITY **3604**
1997 ASEE – NASA SUMMER FACULTY FEWLLOWSHIP PROGRA M
04/01/1997 – 03/31/1998 FY97: $450,734 Total: $450,734
Prin. Invest.: J B HALPERN
Tech. Officer: GSFC/G SOFFEN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 55 HOWARD UNIVERSITY **3605**
THE INFLUENCE OF SEA SURFACE TEMPERATURE ON THE ON JULIAN OSCILLATION WITHIN AN AQUAPLANET MODEL
07/25/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J LINDESAY
Tech. Officer: GSFC/M SUAREZ
CASE Category: 31 – ATMOSPHERIC SCIENCE

NASW 4798 THE AMERICAN UNIVERSITY **3606**
HISTORY OF SPACE AND THE AMERICAN IMAGINATION
05/25/1993 – 05/31/1997 FY97: $0 Total: $120,587
Prin. Invest.: H MC CURDY
Tech. Officer: HQ/R D LAUNIUS
CASE Category: 73 – HISTORY

NCC 5 78 THE AMERICAN UNIVERSITY **3607**
DEVELOPMENT OF STATE OF THE ART SOLID STATE LASERS FOR ALTI-METRY
08/26/1994 – 12/31/1997 FY97: $155,538 Total: $403,327
Prin. Invest.: R B KAY, B COYLE
Tech. Officer: GSFC/T W ZAGWODSKI
CASE Category: 13 – PHYSICS

NCC 5 175 THE AMERICAN UNIVERSITY **3608**
AN INVESTIGATION OF THE FORMATION GROWTH AND STRUC TURE OF ASTROPHYSICAL SILICATE DUST BY
12/09/1996 – 11/30/1997 FY97: $30,000 Total: $30,000
Prin. Invest.: N ROSCHER
Tech. Officer: GSFC/J NUTH
CASE Category: 11 – ASTRONOMY

NGT 5 50003 THE AMERICAN UNIVERSITY **3609**
DEVELOPMENT OF ND: YAG PASSIVELY Q SWITCHED MICROL ASER FOR USE IN THE SATELLITE LASER RANGING 2000.
09/09/1996 – 08/31/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: R B KAY
Tech. Officer: GSFC/G A SOFFEN, GSFC/J DEGNAN
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 1 1296 THE CATHOLIC UNIVERSITY OF AMERICA **3610**
AUTOMATION AND OPERATOR "COMPLACENCY" IN MONITORING
06/21/1991 – 04/30/1998 FY97: $40,000 Total: $736,824
Prin. Invest.: R PARASURAMAN
Tech. Officer: LARC/A T POPE, LARC/J R COMSTOCK
CASE Category: 69 – PSYCHOLOGY, OTHER

NAG 2 1096 THE CATHOLIC UNIVERSITY OF AMERICA **3611**
DYNAMIC AUTOMATION TOOLS FOR AIR TRAFFIC MANAGEMEN T
12/09/1996 – 11/30/1997 FY97: $307,051 Total: $307,051
Prin. Invest.: R PARASURAMAN
Tech. Officer: ARC/K M CORKER, ARC/M R ROSEKEND
CASE Category: 69 – PSYCHOLOGY, OTHER

NAG 5 780 THE CATHOLIC UNIVERSITY OF AMERICA **3612**
ACTIVE CONTROL OF ROBOT MANIPULATOR COMPLIANNCE
05/15/1986 – 12/31/1997 FY97: $0 Total: $508,426
Prin. Invest.: C C NGUYEN
Tech. Officer: GSFC/L PURVES
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 1353 THE CATHOLIC UNIVERSITY OF AMERICA **3613**
LABORATORY & IUE SPECTROSCOÕOPY: EXPANDING DATABASE
04/11/1990 – 03/14/1998 FY97: $0 Total: $132,600
Prin. Invest.: F C BRUHWEILER
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 1413 THE CATHOLIC UNIVERSITY OF AMERICA **3614**
OBSERVATIONS OBTAINED W/ GODDARD HIGH RESOLUTION
08/02/1990 – 05/14/1998 FY97: $0 Total: $272,641
Prin. Invest.: F C BRUHWEILER, C A GRADY
Tech. Officer: GSFC/A SMITH
CASE Category: 11 – ASTRONOMY

NAG 5 1414 THE CATHOLIC UNIVERSITY OF AMERICA **3615**
TIME–DEPENDENT MODEL TO CALCULATE TONIC & MOLECULAR
08/02/1990 – 05/14/1998 FY97: $142,850 Total: $327,210
Prin. Invest.: C H LYU, F C BRUHWEILER
Tech. Officer: GSFC/A M SMITH
CASE Category: 11 – ASTRONOMY

NAG 5 2126 THE CATHOLIC UNIVERSITY OF AMERICA **3616**
DELINEATING THE SPECTRAL TYPE BOUNDARY FOR THE ONS ET OF CHROMOSPHERIC ACTIVITY
10/28/1992 – 06/30/1997 FY97: $0 Total: $63,500
Prin. Invest.: F C BRUHWELLER
Tech. Officer: GSFC/D WEST
CASE Category: 12 – CHEMISTRY

NAG 5 2284 THE CATHOLIC UNIVERSITY OF AMERICA **3617**
MORPHOLOGY OF LOCAL H I VOID AND THE IONIZATION OF HELIUM IN THE LISM AND GALACTIC HALO
06/11/1993 – 06/14/1997 FY97: $55,634 Total: $351,892
Prin. Invest.: F C BRUHWELLER
Tech. Officer: GSFC/R O LIVERSON
CASE Category: 11 – ASTRONOMY

NAG 5 2445 THE CATHOLIC UNIVERSITY OF AMERICA **3618**
PARTICIPATION IN THE MAGNETOMETER EXPERIMENT ON WI ND
12/06/1993 – 12/14/1996 FY97: $0 Total: $25,000
Prin. Invest.: Y C WHANG
Tech. Officer: GSFC/R P LEPPING
CASE Category: 13 – PHYSICS

NAG 5 2814 THE CATHOLIC UNIVERSITY OF AMERICA **3619**
RESEARCH SUPPORT OF WIND MAGNETIC FIELD INSTRUMENT (MFI)
12/12/1994 – 09/14/1997 FY97: $126,700 Total: $201,700
Prin. Invest.: Y C WHANG
Tech. Officer: GSFC/R P LEPPING
CASE Category: 13 – PHYSICS

NAG 5 2881 THE CATHOLIC UNIVERSITY OF AMERICA **3620**
INVESTIGATION OF CORONAL LARGE SCALE STRUCTURE USI NG SPAR-TAN 201 DATA
01/30/1995 – 02/14/1998 FY97: $95,666 Total: $315,959
Prin. Invest.: M GUHATHAKURTA
Tech. Officer: GSFC/R R FISHER
CASE Category: 11 – ASTRONOMY

NAG 5 3037 THE CATHOLIC UNIVERSITY OF AMERICA **3621**
A STUDY TO DETERMINE THE EFFECTS OF SPACE EXPLORA– TION ON THE FUTURE AND DIRECTION OF HUMAN CIVIL..
07/31/1995 – 08/14/1997 FY97: $0 Total: $25,000
Prin. Invest.: F C BRUHWEILER
Tech. Officer: GSFC/Y KONDO
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 3378 THE CATHOLIC UNIVERSITY OF AMERICA **3622**
OBSERVATIONS AND ANALYSIS OF DATA OBTAINED BY THE SPACE TELE-SCOPE IMAGING SPECTROGRAPH
08/28/1996 – 09/30/1997 FY97: $64,556 Total: $115,556
Prin. Invest.: A BOGGESS
Tech. Officer: GSFC/T GULL
CASE Category: 11 – ASTRONOMY

NAG 5 3487 THE CATHOLIC UNIVERSITY OF AMERICA **3623**
MEASURING BORON ABUNDANCES WITH IUE SPECTRA USING LINES
11/25/1996 – 11/14/1997 FY97: $31,905 Total: $31,905
Prin. Invest.: F C BRUNHWEILER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4103 THE CATHOLIC UNIVERSITY OF AMERICA **3624**
OBSERVATIONS AND ANALYSIS OF SEYFERT GALAXIES WITH THE SPACE TELESCOPE IMAGINGSPECTROGRAPH
03/31/1997 – 08/31/1998 FY97: $221,201 Total: $221,201
Prin. Invest.: S KRAEMER
Tech. Officer: GSFC/T GULL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4345 THE CATHOLIC UNIVERSITY OF AMERICA **3625**
EXPERIMENTAL STUDIES OF INGENOUS PROCESSES IN ENST
04/09/1997 – 03/31/1998 FY97: $75,000 Total: $75,000
Prin. Invest.: D DICKINSON
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4362 THE CATHOLIC UNIVERSITY OF AMERICA **3626**
SPATIAL–SPECTRAL MAPPING OF CO EMISSION IN COMETS HALE–BOPP, AND COMPARISON WITH OTHER ORGANICS
04/21/1997 – 03/31/1998 FY97: $43,382 Total: $43,382
Prin. Invest.: D DISANTI
Tech. Officer: GSFC/W HUEBNER
CASE Category: 11 – ASTRONOMY

NAG 5 4418 THE CATHOLIC UNIVERSITY OF AMERICA **3627**
STUDIES OF LONG–PERIOD VARIABILITY IN NEUTRON–STAR
05/02/1997 – 04/30/1998 FY97: $8,332 Total: $8,332
Prin. Invest.: F LANG
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4940 THE CATHOLIC UNIVERSITY OF AMERICA **3628**
INTERPRETIVE TOOLS FOR ANALYSIS OF CORONAL IMAGES
06/23/1997 – 05/31/1998 FY97: $65,500 Total: $65,500
Prin. Invest.: D GUHATHAKURTA
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NAG 5 6026 THE CATHOLIC UNIVERSITY OF AMERICA **3629**
DEVELOPMENT OF VERY LIGHT WEIGHT ACTIVE OPTICS
09/04/1997 – 09/14/1998 FY97: $26,440 Total: $26,440
Prin. Invest.: F BRUHWEILER
Tech. Officer: GSFC/C BOWERS
CASE Category: 11 – ASTRONOMY

NAG 5 6139 THE CATHOLIC UNIVERSITY OF AMERICA **3630**
NEAR–SURFACE MANIFESTATIONS OF GEO–EFFECTIVE SOLAR
09/08/1997 – 09/14/1998 FY97: $65,000 Total: $65,000
Prin. Invest.: D GOPALSWAMY
Tech. Officer: GSFC/W J WAGNER
CASE Category: 11 – ASTRONOMY

NAG 5 6239 THE CATHOLIC UNIVERSITY OF AMERICA **3631**
A STUDY OF PHYSICAL PROCESSES IN THE ATMOSPHERE OF
09/08/1997 – 09/30/1998 FY97: $67,999 Total: $67,999
Prin. Invest.: R D ROBINSON
Tech. Officer: GSFC/K G CARPENTER
CASE Category: 11 – ASTRONOMY

NAG 5 6260 THE CATHOLIC UNIVERSITY OF AMERICA **3632**
INTERPRETATION OF WHITE LIGHT CORONOGRAPH DAD MODEL
08/19/1997 – 06/30/1998 FY97: $47,700 Total: $47,700
Prin. Invest.: D GUHATHAKURTA
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NCC 2 994 THE CATHOLIC UNIVERSITY OF AMERICA **3633**
PHOTOCHEMISTRY OF PLUTO'S ATMOSPHERE
05/22/1997 – 01/31/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: V A KRASNOPOLSKY
Tech. Officer: ARC/D P CRUIKSHANK, ARC/F C WITTEBORN
CASE Category: 11 – ASTRONOMY

NCC 5 68 THE CATHOLIC UNIVERSITY OF AMERICA **3634**
STUDIES OF ELEMENTARY REACTIONS OF CHEMICAL IMPORT ANCE IN THE ATMOSPHERES OF PLANETS
04/28/1994 – 04/30/1998 FY97: $139,542 Total: $255,764
Prin. Invest.: F L NESBITT
Tech. Officer: GSFC/L J STIEF
CASE Category: 12 – CHEMISTRY

NCC 5 83 THE CATHOLIC UNIVERSITY OF AMERICA **3635**
RESEARCH OF COSMIC HARD X–RAYS AND GAMMA RAYS
03/28/1995 – 03/31/1998 FY97: $201,943 Total: $925,428
Prin. Invest.: C WEMTZ, R STARR
Tech. Officer: GSFC/D OLIVERSEN
CASE Category: 11 – ASTRONOMY

NCC 5 130 THE CATHOLIC UNIVERSITY OF AMERICA **3636**
HIGH RESOLUTION SPECTROSCOPY OF COMETARY COMAE AND PLANETARY ATMOSPHERS: IMPLENTATION OF THE NEW...
02/02/1996 – 02/14/1998 FY97: $35,312 Total: $110,297
Prin. Invest.: F C BRUHWEILER, M A DI SANTI
Tech. Officer: GSFC/M J MUMMA
CASE Category: 11 – ASTRONOMY

NCC 5 178 THE CATHOLIC UNIVERSITY OF AMERICA **3637**
PROVIDE FUNDING FOR THE PROPOSAL"CHEMISTRY OF PLAN REACTION RATES AND REACTION PRODUCTS"
01/22/1997 – 01/31/1999 FY97: $197,316 Total: $197,316
Prin. Invest.: D J BOGAN*Prin. Invest.:* NONE
Tech. Officer: GSFC/L J STIEF
CASE Category: 12 – CHEMISTRY

NCC 5 210 THE CATHOLIC UNIVERSITY OF AMERICA **3638**
INFRARED SPECTROSCOPY OF COMETS: AN OBSERVATIONAL STUDY OF COMETARY COMPOSITION AND ORIGIN.
06/17/1997 – 05/31/1998 FY97: $58,100 Total: $58,100
Prin. Invest.: N RUSSO*Prin. Invest.:* NONE
Tech. Officer: GSFC/M J MUMMA
CASE Category: 11 – ASTRONOMY

NCC 5 211 THE CATHOLIC UNIVERSITY OF AMERICA **3639**
AERONOMY OF PLANETARY AND COMETARY ATMOSPHERES: S
06/24/1997 – 05/31/1998 FY97: $29,000 Total: $29,000
Prin. Invest.: V KRASNOPOLSKY
Tech. Officer: GSFC/M J MUMMA
CASE Category: 11 – ASTRONOMY

NGT 70371 THE CATHOLIC UNIVERSITY OF AMERICA **3640**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
08/30/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: F C BRUHWEILER
Tech. Officer: HQ/D K RUSSELL
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NGT 1 52137 THE CATHOLIC UNIVERSITY OF AMERICA **3641**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/19/1996 – 06/30/1998 FY97: $10,000 Total: $32,000
Prin. Invest.: J A DULEY, R PARASURAMAN
Tech. Officer: LARC/P C SCHUTTE, LARC/A T POPE
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 70000 THE CATHOLIC UNIVERSITY OF AMERICA **3642**
GRADUATE STUDENT RESEARCH PROGRAM – STUDENT: CHAR
08/26/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D D BRUHWEILER
Tech. Officer: GSFC/M STOUTSENBERGER
CASE Category: 13 – PHYSICS

NAG 5 2345 UNIVERSITY OF DISTRICT OF COLUMBIA **3643**
A STUDY OF SURFACE TEMPERATURES, CLOUDS AND NET RA DIATION
07/27/1993 – 12/31/1996 FY97: $0 Total: $155,843
Prin. Invest.: H L DHURIA
Tech. Officer: GSFC/H L KYLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2348 UNIVERSITY OF DISTRICT OF COLUMBIA **3644**
HIGH TC SUPERCONDUCTING BOLOMETRIC AND NONBVOLOMET RIC INFRA RED (IR) DETECTORS
08/09/1993 – 08/14/1996 FY97: $0 Total: $333,000
Prin. Invest.: S LAKEOU
Tech. Officer: GSFC/C ALLEN
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 3961 UNIVERSITY OF DISTRICT OF COLUMBIA **3645**
SCIENTIFIC RENEWAL
02/18/1997 – 12/31/1997 FY97: $124,799 Total: $124,799
Prin. Invest.: W R COLEMAN
Tech. Officer: GSFC/B WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 4724 UNIVERSITY OF DISTRICT OF COLUMBIA **3646**
SATURDAY ACADEMY PROGRAM
06/19/1997 – 03/31/1998 FY97: $588,790 Total: $588,790
Prin. Invest.: W R COLEMAN
Tech. Officer: GSFC/L RANDOLPH
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 2045 UNIVERSITY OF DISTRICT OF COLUMBIA **3647**
SATURDAY ACADEMY–ENGINEERING, MATHEMATICS AND COMP UTER SCIENCE FOR ACADEMICALLY TALENTED STUDENTS
03/30/1990 – 03/31/1997 FY97: $0 Total: $3,093,920
Prin. Invest.: W R COLEMAN
Tech. Officer: HQ/Y B FREEMAN
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NCC 5 196 UNIVERSITY OF DISTRICT OF COLUMBIA **3648**
PARTNERSHIP AWARD WITH MINORITY UNIVERSITIES AND C
05/22/1997 – 05/31/1998 FY97: $200,000 Total: $200,000
Prin. Invest.: G WYCHE–MOORE
Tech. Officer: GSFC/E ENGMAN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

FLORIDA

NAG 5 3713 BETHUNE – COOKMAN COLLEGE **3649**
SCIENCE, ENGINEERING, AND MATHEMATICS SATURDAY ACA READINESS PROGRAM (SEMSAP)
03/10/1997 – 08/31/1997 FY97: $203,250 Total: $203,250
Prin. Invest.: T R NICHOLSON, SR.
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 991 BETHUNE – COOKMAN COLLEGE **3650**
JOVE
04/06/1994 – 05/31/1996 FY97: $0 Total: $135,500
Prin. Invest.: S A RAHMANI, L C AGBA, S K DAVID, N.G.
Tech. Officer: MSFC/F SIX
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4231 BETHUNE – COOKMAN COLLEGE **3651**
A SCIENCE, ENGINEERING, AND MATHEMATICS SATURDAY ACADEMY PRE–COLLEGE READINESS PROGRAM
01/11/1995 – 09/30/1995 FY97: $0 Total: $206,030
Prin. Invest.: T R NICHOLSON
Tech. Officer: KSC/A J DIGGS
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG10 195 BETHUNE – COOKMAN COLLEGE **3652**
OPERATION OF THE CENTER FOR SPACE EDUCATION
09/11/1996 – 09/30/1997 FY97: $328,175 Total: $646,792
Prin. Invest.: G W BECKLES, A E LONG
Tech. Officer: KSC/S DUTCZAK
CASE Category: 41 – AERONAUTICAL ENGNR

NAG10 220 BETHUNE – COOKMAN COLLEGE **3653**
NASA MINORITY INSTITUTION ENTREPRENEURIAL PARTNER SHIP GRANT
06/27/1997 – 06/26/1998 FY97: $800,000 Total: $800,000
Prin. Invest.: A D TAYLOR
Tech. Officer: KSC/G BUCKINGHAM
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT10 52610 BETHUNE – COOKMAN COLLEGE **3654**
FIELD PROGRAM EXPERIENCE
05/15/1996 – 08/31/1997 FY97: $0 Total: $26,000
Prin. Invest.: T R NICHOLSON, SR
Tech. Officer: KSC/R WHEELER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 1843 ECKERD COLLEGE **3655**
EXPERIMENTAL STUDIES OF FAR–INFRARED SPECTRA OF CO SMIC TYPE ICES
12/16/1991 – 02/14/1997 FY97: $0 Total: $29,500
Prin. Invest.: R L HUDSON
Tech. Officer: GSFC/M H MOORE, GSFC/J A NUTH
CASE Category: 11 – ASTRONOMY

NAG 8 1103 ECKERD COLLEGE **3656**
JOVE
10/21/1994 – 08/20/1998 FY97: $19,260 Total: $102,260
Prin. Invest.: J B THOMPSON, S M STANCZYK
Tech. Officer: MSFC/F SIX
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3992 EDWARD WATERS COLLEGE **3657**
MATHEMATICS SCIENCE AND TECHNOLOGY
05/19/1994 – 04/30/1997 FY97: $0 Total: $700,000
Prin. Invest.: N SUNDURLINGAM
Tech. Officer: HQ/B WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG10 213 EDWARD WATERS COLLEGE **3658**
CLASSROOM OF THE FUTURE CENTER (COTF) MASTER SCIENCE TEACHER CERTIFICATION (MTCP)
09/01/1997 – 08/31/1998 FY97: $200,000 Total: $200,000
Prin. Invest.: G BUCKINGHAM
Tech. Officer: KSC/E JOHNSON
CASE Category: 49 – ENGINEERING, OTHER

NAG 8 1195 EMBRY–RIDDLE AERONAUTICAL UNIVERSITY **3659**
JOVE
09/15/1995 – 08/31/1997 FY97: –$52 Total: $39,758
Prin. Invest.: C D STODDEN
Tech. Officer: GSFC/D SIX
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCA 1 133 EMBRY–RIDDLE AERONAUTICAL UNIVERSITY **3660**
1996 AGATE – GENERAL AVIATION
07/23/1996 – 10/31/1997 FY97: $68,500 Total: $93,500
Prin. Invest.: S HAMPTON
Tech. Officer: LARC/B J HOLMES, LARC/M H DURHAM
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 8 26 EMBRY–RIDDLE AERONAUTICAL UNIVERSITY **3661**
JOVE
12/07/1992 – 10/31/1995 FY97: –$758 Total: $166,616
Prin. Invest.: L ERICKSON
Tech. Officer: MSFC/F SIX
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1787 FLA INTERNATIONAL UNIVERSITY **3662**
VIBRATION CONTROL FOR FLEXIBLE STRUCTURES BY MEANS OF VISCOELASTIC DAMPING AND SHAPE MEMORY ALLOY
12/15/1995 – 04/16/1998 FY97: $0 Total: $150,565
Prin. Invest.: C LEVY, K WU
Tech. Officer: LARC/J J SINGH
CASE Category: 46 – MECHANICAL ENGR

NAG 5 2583 FLA INTERNATIONAL UNIVERSITY **3663**
SCATTERING OF METASTABLE ATOMS
04/28/1994 – 08/31/1998 FY97: $0 Total: $214,297
Prin. Invest.: J W SHELDON, K A HARDY
Tech. Officer: GSFC/J J HILLMAN
CASE Category: 13 – PHYSICS

NAG 5 3071 FLA INTERNATIONAL UNIVERSITY **3664**
APPLICATION OF HIGH RESOLUTION DIGITAL TOPOGRAPHIC DATA TO THE DETECTION OF INCIPIENT SINKHOLE. . .
09/15/1995 – 09/14/1997 FY97: $71,037 Total: $151,185
Prin. Invest.: D WHITMAN
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3124 FLA INTERNATIONAL UNIVERSITY **3665**
REMOTE SENSING OF PHYTOPLANKTON DYNAMICS USING AVIRIS DERIVED SPECTRAL AND IMAGE DATA
10/17/1995 – 10/31/1997 FY97: $0 Total: $68,248
Prin. Invest.: L L RICHARDSON, V AMBROSIA
Tech. Officer: GSFC/K R ARRIGO, GSFC/C R MCCLAIN
CASE Category: 33 – OCEANOGRAPHY

NAG 5 3662 FLA INTERNATIONAL UNIVERSITY **3666**
AN EXTENDED OBSERVATION OF BLAZAR 3C 279
12/11/1996 – 12/14/1997 FY97: $1,200 Total: $1,200
Prin. Invest.: J R WEBB
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3826 FLA INTERNATIONAL UNIVERSITY **3667**
BASIC RESEARCH IN ATOMIC, MOLECULAR AND OPTICAL PHYSICS IN SUPPORT OF NASA STRATEGIC ENTERPRISES
01/29/1997 – 01/31/1998 FY97: $99,598 Total: $99,598
Prin. Invest.: K HARDY
Tech. Officer: GSFC/R HARTLE
CASE Category: 11 – ASTRONOMY

NAG 5 6324 FLA INTERNATIONAL UNIVERSITY **3668**
INTERACTIVE VIDEO TELECONFERENCING
09/08/1997 – 07/31/1998 FY97: $20,000 Total: $20,000
Prin. Invest.: G ROIG
Tech. Officer: GSFC/M MATEU
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 272 FLA INTERNATIONAL UNIVERSITY **3669**
JOVE
02/02/1993 – 05/31/1997 FY97: –$3,112 Total: $149,888
Prin. Invest.: W V VAN HAMME, J R WEBB, J W SHELDON
Tech. Officer: MSFC/F SIX
CASE Category: 13 – PHYSICS

NAG 8 283 FLA INTERNATIONAL UNIVERSITY **3670**
THEORY OF THE MOTION OF METEOR PARTICLES IN SOLID MATERIALS
03/01/1993 – 02/28/1997 FY97: –$100 Total: $217,928
Prin. Invest.: N MUNROE, G CHERPANOV
Tech. Officer: MSFC/F SIX
CASE Category: 11 – ASTRONOMY

NAG 8 1296 FLA INTERNATIONAL UNIVERSITY **3671**
METALS PROCESS CONTROL RESEARCH FOR ALUMINUM LITHIUM ALLOYS
05/16/1996 – 05/21/1997 FY97: $0 Total: $99,974
Prin. Invest.: P L ROMINE
Tech. Officer: MSFC/K LAWLESS
CASE Category: 47 – METAL & MATERIALS ENGR

NAGW 4080 FLA INTERNATIONAL UNIVERSITY **3672**
HIGH PERFORMANCE DATABASE MANAGEMENT
07/13/1994 – 05/31/1997 FY97: $0 Total: $1,800,000
Prin. Invest.: N RISHE
Tech. Officer: HQ/B L WHITE
CASE Category: 22 – COMPUTER SCIENCE

NAGW 4641 FLA INTERNATIONAL UNIVERSITY **3673**
MINORITIES ACHIEVING SUCCESS IN TEACHING MATHEMATI CS AND SCIENCE
07/19/1995 – 06/30/1997 FY97: $220,000 Total: $420,000
Prin. Invest.: C BRAIN
Tech. Officer: HQ/M MATEU
CASE Category: 21 – MATHEMATICS

NAGW 5043 FLA INTERNATIONAL UNIVERSITY **3674**
BLAZAR CONTINUUM VARIABILITY WORKSHOP
04/30/1996 – 12/31/1996 FY97: $0 Total: $5,600
Prin. Invest.: J R WEBB
Tech. Officer: HQ/R A STACHNIK
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG10 150 FLA INTERNATIONAL UNIVERSITY **3675**
UTILIZATION OF THE SFC DATABASE
01/03/1995 – 01/08/1998 FY97: $74,995 Total: $224,843
Prin. Invest.: M A CENTENO
Tech. Officer: KSC/A M MITSKEVICH
CASE Category: 41 – AERONAUTICAL ENGNR

NAG10 211 FLA INTERNATIONAL UNIVERSITY **3676**
INTENSIVE SCIENTIFIC INTERCURRICULAR ONSITE EDUCATION PROJECT V.I.S.I.O.N
09/01/1997 – 08/31/1998 FY97: $400,000 Total: $400,000
Prin. Invest.: G ROIG
Tech. Officer: KSC/E JOHNSON
CASE Category: 49 – ENGINEERING, OTHER

NAG10 212 FLA INTERNATIONAL UNIVERSITY **3677**
APPLIED RESEARCH IN INDUSTRIAL & SYSTEMS ENGINEERING (ARISE) CENTER
08/29/1997 – 08/28/1998 FY97: $199,983 Total: $199,983
Prin. Invest.: M A CENTENO
Tech. Officer: KSC/A MITSKEVICH
CASE Category: 49 – ENGINEERING, OTHER

NAG10 229 FLA INTERNATIONAL UNIVERSITY **3678**
CLCS DESIGN PROGRAM
09/17/1997 – 05/31/1998 FY97: $61,847 Total: $61,847
Prin. Invest.: J JACKO, M RESNICK
Tech. Officer: KSC/GBUCKINGHAM
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 917 FLA INTERNATIONAL UNIVERSITY **3679**
AERONAUTICS LEARNING LABORATORY FOR SCIENCE TECHNO LOGY & RESEARCH (ALL STAR) NETWORK
07/24/1995 – 06/30/1997 FY97: $392,516 Total: $758,841
Prin. Invest.: C LEVY
Tech. Officer: ARC/M J LEON, ARC/W C LIKENS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCCW 44 FLA INTERNATIONAL UNIVERSITY **3680**
STRATEGIC COMMERCIALIZATION & UTILIZATION INITIATIVE (SCUI)
05/25/1994 – 04/30/1997 FY97: –$8,899 Total: $1,199,596
Prin. Invest.: M A EBADIAN
Tech. Officer: HQ/A KAHN, HQ/B WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90147 FLA INTERNATIONAL UNIVERSITY **3681**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
09/26/1992 – 08/14/1996 FY97: $0 Total: $48,000
Prin. Invest.: J NAVLAKHA
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90148 FLA INTERNATIONAL UNIVERSITY **3682**
GSRP/UMF
09/26/1992 – 08/14/1996 FY97: $0 Total: $48,000
Prin. Invest.: J NAVLAKHA
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT10 52614 FLA INTERNATIONAL UNIVERSITY **3683**
NEW AUTOMATED WEB–BASED TRACKING SYSTEM
09/05/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J A JACKO
Tech. Officer: KSC/G BUCKINGHAM
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1696 FLORIDA A&M UNIVERSITY **3684**
COMPREHENSIVE MICROSTRUCTURAL CHARACTERIZATION OF ADVANCED ALUMINUM ALLOYS
03/27/1995 – 09/26/1996 FY97: $1 Total: $49,654
Prin. Invest.: P N KALU
Tech. Officer: LARC/D M ROYSTER, LARC/J A WAGNER
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 1866 FLORIDA A&M UNIVERSITY **3685**
MICROMECHANICAL CHARACTERIZATION AND TEXTURE ANALYSIS OF DIRECT CAST TITANIUM ALLOY STRIP
09/12/1996 – 09/30/1998 FY97: $98,494 Total: $197,956
Prin. Invest.: H GARMESTANI
Tech. Officer: LARC/B A BAUM
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 1930 FLORIDA A&M UNIVERSITY **3686**
SHOCK WAVE DYNAMICS IN WEAKLY IONIZED PLASMAS
05/29/1997 – 05/31/1998 FY97: $30,000 Total: $30,000
Prin. Invest.: J A JOHNSON,III
Tech. Officer: LARC/A H AUSLENDER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 929 FLORIDA A&M UNIVERSITY **3687**
TURBULENT MEASUREMENTS IN SUPERSONIC FLOW
09/26/1994 – 12/31/1997 FY97: $80,000 Total: $240,000
Prin. Invest.: J A JOHNSON III
Tech. Officer: ARC/J G MARVIN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 1114 FLORIDA A&M UNIVERSITY **3688**
INTEGRATED DESIGN SYSTEMS TECHNOLOGY
02/14/1997 – 09/30/1997 FY97: $299,502 Total: $299,502
Prin. Invest.: A KROTHAPLLI
Tech. Officer: ARC/C A SMITH
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1494 FLORIDA A&M UNIVERSITY **3689**
DISTANCE LEARNING IN THE SCIENCES
05/27/1993 – 08/22/1996 FY97: –$60,000 Total: $0
Prin. Invest.: J L EARLY, K F SOLIMAN
Tech. Officer: LERC/M S PLECITY, LERC/R J SCHERTLER
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1759 FLORIDA A&M UNIVERSITY **3690**
A GRADUATE FELLOWSHIP COMPONENT TO AUGMENT PROGRAM IMAGE
06/14/1995 – 09/30/1997 FY97: $0 Total: $601,018
Prin. Invest.: F S HUMPHRIES, F J FOREMAN
Tech. Officer: LERC/J E BOYD
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 3 1971 FLORIDA A&M UNIVERSITY **3691**
CUBIC BORON NITRIDE ALPHAVOLTAIC DEVICES
09/21/1996 – 09/30/1999 FY97: $0 Total: $89,505
Prin. Invest.: S M DURBIN
Tech. Officer: LERC/G C RYBICKI
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 2056 FLORIDA A&M UNIVERSITY **3692**
FLIGHT EFFECTS ON FORWARD RADIATED HSCT FAN NOISE FLIGHT EFFECTS ON FORWARD REDIATED HSCT FAN NOISE
09/16/1997 – 05/14/1999 FY97: $79,906 Total: $79,906
Prin. Invest.: A KROTHAPALLI
Tech. Officer: LERC/R P WOODWARD
CASE Category: 42 – ASTRONAUTICAL ENGR

NAGW 2930 FLORIDA A&M UNIVERSITY **3693**
CENTER FOR NONLINEAR AND NONEQUILIBRIUM AEROSCIENC E
02/19/1992 – 12/31/1996 FY97: $0 Total: $7,702,066
Prin. Invest.: J A JOHNSON
Tech. Officer: HQ/S E MASSENBERG, HQ/S HARTMAN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4653 FLORIDA A&M UNIVERSITY **3694**
REMOTE SENSING LAND–USE CLASSIFICATION AND ENHANCE MENT OF AGRICULTURAL PRODUCTION IN SOUTHAFRICA
07/24/1995 – 07/31/1996 FY97: $0 Total: $149,985
Prin. Invest.: S PANCHOLY
Tech. Officer: HQ/B L WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG10 214 FLORIDA A&M UNIVERSITY **3695**
DISCOVER – SBI/NASA INTERSHIPS
09/01/1997 – 08/31/1998 FY97: $200,000 Total: $200,000
Prin. Invest.: S MOBLEY
Tech. Officer: KSC/G BUCKINGHAM
CASE Category: 49 – ENGINEERING, OTHER

NAG10 226 FLORIDA A&M UNIVERSITY **3696**
CONTROL & CALIBRATION OF ARID
09/18/1997 – 09/17/1998 FY97: $71,490 Total: $71,490
Prin. Invest.: R ROBERTS
Tech. Officer: KSC/T LIPPITT
CASE Category: 49 – ENGINEERING, OTHER

NAG13 41 FLORIDA A&M UNIVERSITY **3697**
LABILE AND STABLE SOC POOLS REVEALED BY C–14 AND C–13 SIGNATURES
09/27/1996 – 09/26/1998 FY97: $96,566 Total: $193,398
Prin. Invest.: Y P HSIEH
Tech. Officer: SSC/A JOYCE
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAG13 43 FLORIDA A&M UNIVERSITY **3698**
REMOTE SENSING LAND–USE CLASSIFICATION AND ENHANCE MENT OF AGRICULTURAL PRODUCTION IN SOUTHAFRICA
07/24/1995 – 07/31/1998 FY97: $149,545 Total: $149,545
Prin. Invest.: S PANCHOLY
Tech. Officer: SSC/A JOYCE
CASE Category: 43 – CHEMICAL ENGR

NCC 1 252 FLORIDA A&M UNIVERSITY **3699**
CENTER FOR NONLINEAR AND NONEQUILIBRIUM AEROSCIENCES (CENNAS)
04/23/1997 – 12/31/1997 FY97: $840,000 Total: $840,000
Prin. Invest.: J JOHNSON
Tech. Officer: LARC/W SELLERS
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 956 FLORIDA A&M UNIVERSITY **3700**
A COPPERATIVE RESEARCH PROGRAM IN AERONAUTICAL INF ORMATION SCIENCE TECHNOLOGIES
07/01/1996 – 09/30/1997 FY97: $238,811 Total: $453,740
Prin. Invest.: A KROTHAPALLI, L LOURENCO, S WALKER
Tech. Officer: ARC/J C ROSS, ARC/P T SODERMAN
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 1005 FLORIDA A&M UNIVERSITY **3701**
DEVELOPMENT OF A TRANSDERMAL DELIVERY DEVICE FOR M ELATONIN IN VIVO
08/25/1997 – 07/31/1998 FY97: $97,994 Total: $97,994
Prin. Invest.: M S SACHDEVA
Tech. Officer: ARC/C M WINGET, ARC/G S LEE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 90030 FLORIDA A&M UNIVERSITY **3702**
NGT–90030/FLORIDA A&M UNIV/PROJECT IMAGE – INCREAS ING MINORITY ACCESS TO GRADUATE ENGINEERING
03/14/1990 – 11/14/1996 FY97: $0 Total: $5,600,969
Prin. Invest.: F S HUMPHRIES
Tech. Officer: HQ/L WARREN, HQ/M MARGOLIS
CASE Category: 49 – ENGINEERING, OTHER

NGT 90107 FLORIDA A&M UNIVERSITY **3703**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
09/17/1992 – 08/14/1996 FY97: –$11,615 Total: $34,385
Prin. Invest.: H L WILLIAMS
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90181 FLORIDA A&M UNIVERSITY **3704**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/27/1993 – 02/28/1997 FY97: –$5,193 Total: $30,807
Prin. Invest.: E R TOSSIE
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90018 FLORIDA A&M UNIVERSITY **3705**
ENGINEERING CONCEPT INSTITUTE
02/21/1997 – 09/30/1997 FY97: $59,781 Total: $59,781
Prin. Invest.: F J FOREMAN
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 49 – ENGINEERING, OTHER

NGT 5 90035 FLORIDA A&M UNIVERSITY **3706**
TRAINING GRANT – PROJECT IMAGE
02/24/1997 – 11/14/1997 FY97: $1,227,403 Total: $1,227,403
Prin. Invest.: F HUMPHRIES
Tech. Officer: GSFC/J DIGGS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90047 FLORIDA A&M UNIVERSITY **3707**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH
02/06/1997 – 08/14/1997 FY97: $17,000 Total: $17,000
Prin. Invest.: H L WILLIAMS
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 21 – MATHEMATICS

NGT 5 90062 FLORIDA A&M UNIVERSITY **3708**
SPACE LIFE SCIENCES TRAINING PROGRAM (SLSTP)
02/12/1997 – 02/28/1998 FY97: $434,728 Total: $434,728
Prin. Invest.: C B GOODMAN
Tech. Officer: GSFC/B L WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT10 40900 FLORIDA A&M UNIVERSITY **3709**
GRADUATE SCHOOL RESEARCHERS PROGRAM
10/01/1985 – 12/31/1996 FY97: –$8,000 Total: $4,807,552
Prin. Invest.: C B GOODMAN
Tech. Officer: HQ/J MALONE
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 1 1202 FLORIDA ATLANTIC UNIVERSITY **3710**
BROAD BAND NOISE PREDICTION FOR ADVANCED DUCTED PROP FANS USIN LOCALLY GENERATED INFLOWFDP
12/17/1990 – 12/31/1997 FY97: $65,911 Total: $421,920
Prin. Invest.: S A GLEGG
Tech. Officer: LARC/J W POSEY, LARC/F FARASSAT
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1310 FLORIDA ATLANTIC UNIVERSITY **3711**
FUNDAMENTAL PROBLEMS IN PROBABILISTICS AND CONVEX ANALYSES OF UNCERTAIN INITIAL IMPERFECTIONSFDP
07/15/1991 – 10/31/1997 FY97: $30,000 Total: $286,145
Prin. Invest.: I ELISHAKOFF
Tech. Officer: LARC/J H STARNES
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1812 FLORIDA ATLANTIC UNIVERSITY **3712**
EVALUATION OF STRUCTURE-BORNE NOISE PREDICTION TECHNIQUES (NLPN 95–1224)
02/23/1996 – 02/22/1997 FY97: $0 Total: $30,000
Prin. Invest.: J M CUSCHIERI, C B BURROUGHS, G P CARROLL
Tech. Officer: LARC/K H LYLE, LARC/R J SILCOX
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1738 FLORIDA ATLANTIC UNIVERSITY **3713**
NUMERICAL MODELING OF TWINNING IN GAAS CRYSTAL DUR ING SPACE GROWTH PROCESS
04/18/1995 – 04/17/1997 FY97: $0 Total: $25,817
Prin. Invest.: C TSAI, NONE
Tech. Officer: LERC/A CHAIT
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1817 FLORIDA ATLANTIC UNIVERSITY **3714**
CONDITION MONITORING SYSTEM DESIGN FOR AIRCRAFT EN GINES FAULT PARAMETER ESTIMATION APPROACH
03/29/1996 – 03/28/1997 FY97: $30,000 Total: $55,000
Prin. Invest.: A DUYAR
Tech. Officer: LERC/T H GUO
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 2023 FLORIDA ATLANTIC UNIVERSITY **3715**
SPACE COMMUNICATIONS TECHNOLOGY CENTER
03/12/1997 – 02/24/1998 FY97: $400,000 Total: $400,000
Prin. Invest.: W E GLENN, H HELMKEN
Tech. Officer: LERC/T P BIZON
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 3903 FLORIDA ATLANTIC UNIVERSITY **3716**
ONE– AND MULTIDIMENSIONAL RADIATION HYDRODYNAMICS NOVAE
03/03/1997 – 02/14/1998 FY97: $30,000 Total: $30,000
Prin. Invest.: S W BRUENN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAGW 2778 FLORIDA ATLANTIC UNIVERSITY **3717**
CENTER FOR COMMERCIAL DEVELOPMENT OF SPACE COMMUNI CATIONS
01/23/1992 – 09/30/1997 FY97: $0 Total: $4,430,000
Prin. Invest.: W GLENN, J SHEPPERD
Tech. Officer: HQ/V CEVENINI, HQ/C PITTMAN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG10 193 FLORIDA ATLANTIC UNIVERSITY **3718**
STUDY PROPERTIES OF SPRAYED ZINC
04/26/1996 – 05/01/1998 FY97: $69,173 Total: $138,343
Prin. Invest.: W H HARTT
Tech. Officer: KSC/R LEE
CASE Category: 13 – PHYSICS

NAS 3 26956 FLORIDA ATLANTIC UNIVERSITY **3719**
ACTS PROPAGATION EXPERIMENTS
06/21/1993 – 03/31/1998 FY97: $66,842 Total: $233,908
Prin. Invest.: H F HELMKEN
Tech. Officer: LERC/R J GUNDERMAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 1 1957 FLORIDA INSTITUTE OF TECHNOLOGY **3720**
ADVANCED COMMUNICATIONS DATALINK FOR MODERN COCKPITS
07/30/1997 – 12/01/1997 FY97: $30,000 Total: $30,000
Prin. Invest.: A F STOKES, D M HAM
Tech. Officer: LARC/P A PADILLA
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 3103 FLORIDA INSTITUTE OF TECHNOLOGY **3721**
WHITE DWARF EVOLUTION AND AGE AND EVOLUTION OF THE GALAXY
10/11/1995 – 10/14/1997 FY97: $0 Total: $122,000
Prin. Invest.: M A WOOD
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3886 FLORIDA INSTITUTE OF TECHNOLOGY **3722**
BABY MACHINE ANALYSIS OF CELLULAR GRAVITY SENSITIV
03/04/1997 – 04/30/1998 FY97: $101,011 Total: $101,011
Prin. Invest.: C HELMSTETTER
Tech. Officer: GSFC/T SCOTT
CASE Category: 11 – ASTRONOMY

NAG 5 4897 FLORIDA INSTITUTE OF TECHNOLOGY **3723**
CRRES AND GEOSYNCHRONOUS OBSERVATIONS OF PLASMASPH AMICS
06/24/1997 – 06/30/1998 FY97: $43,500 Total: $43,500
Prin. Invest.: D B MOLDWIN
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 8 1094 FLORIDA INSTITUTE OF TECHNOLOGY **3724**
MERCURY STUDIES
09/19/1994 – 09/18/1996 FY97: –$1 Total: $32,568
Prin. Invest.: J D PATTERSON
Tech. Officer: MSFC/S D COBB, MSFC/S L LEHOCZKY
CASE Category: 13 – PHYSICS

NAGW 4503 FLORIDA INSTITUTE OF TECHNOLOGY **3725**
BABY MACHINE ANALYSIS OF CELLULAR GRAVITY SENSITIV ITY
05/19/1995 – 09/30/1997 FY97: $0 Total: $194,424
Prin. Invest.: C E HELMSTETTER
Tech. Officer: HQ/T K SCOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 5153 FLORIDA INSTITUTE OF TECHNOLOGY **3726**
CRRES AND GEOSYNCHRONOUS OBSERVATIONS
09/03/1996 – 09/30/1997 FY97: $44,700 Total: $44,700
Prin. Invest.: M MOLDWIN
Tech. Officer: GSFC/J D BOHLIN, GSFC/G L WITHBORE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG10 151 FLORIDA INSTITUTE OF TECHNOLOGY **3727**
DEVELOPMENT & TESTING OF AN OPTICAL WATER QUALITY BUOY
01/09/1995 – 01/16/1998 FY97: $60,000 Total: $204,000
Prin. Invest.: C R BOSTATER
Tech. Officer: KSC/W M KNOTT
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAS 5 32364 FLORIDA INSTITUTE OF TECHNOLOGY **3728**
TRMM GROUND TRUTH VALIDATION IN CENTRAL FLORIDA REGION
06/23/1994 – 06/22/1997 FY97: $0 Total: $152,000
Prin. Invest.: W L JONES
Tech. Officer: GSFC/O J THIELE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCA 1 145 FLORIDA INSTITUTE OF TECHNOLOGY **3729**
1996 AGATE –GENERAL AVIATION PROJECT AGATE PROJECT
07/23/1996 – 04/01/1997 FY97: $0 Total: $30,000
Prin. Invest.: A F STOKES
Tech. Officer: LARC/B J HOLMES, LARC/M H DURHAM
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51086 FLORIDA INSTITUTE OF TECHNOLOGY **3730**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/01/1993 – 12/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: T D OSWALT
Tech. Officer: HQ/D HOLLAND
CASE Category: 42 – ASTRONAUTICAL ENGR

NGT10 52604 FLORIDA INSTITUTE OF TECHNOLOGY **3731**
GRADUATE STUDENT RESEARCH GRANT
04/08/1996 – 06/30/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: J C BAUM, A B BROWN
Tech. Officer: KSC/D LUECK
CASE Category: 12 – CHEMISTRY

NAG10 196 FLORIDA MEMORIAL COLLEGE **3732**
MINORITY AVIATION CAREER AWARENESS PROGRAM
09/24/1996 – 09/30/1998 FY97: $179,995 Total: $179,995
Prin. Invest.: D T COLEMAN
Tech. Officer: KSC/J DIGGS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 421 FLORIDA STATE UNIVERSITY **3733**
COMPUTATION OF LARGE TURBULENCE STRUCTURES & NOISES OF SUPERSONIC JETS
12/01/1983 – 12/31/1996 FY97: $0 Total: $790,962
Prin. Invest.: C K TAM
Tech. Officer: LARC/R A GOLUB, LARC/T D NORUM
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1312 FLORIDA STATE UNIVERSITY **3734**
INTIAL RESEARCH FOR TRACE–A _____FDP
08/01/1991 – 02/28/1997 FY97: $0 Total: $587,774
Prin. Invest.: T N KRISHNAMURTI, H E FUELBERG
Tech. Officer: LARC/J FISHMAN, LARC/J M HOELL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1771 FLORIDA STATE UNIVERSITY **3735**
HIGH RESOLUTION NUMERICAL SIMULATIONS AND DIAGNOS– TIC STUDIES OF ATMOSPHERIC TRANSPORT DURING PEM–
10/18/1995 – 02/17/1999 FY97: $347,270 Total: $530,789
Prin. Invest.: T N KRISHNAMURTI, H E FUELBERG
Tech. Officer: LARC/J M HOELL, JR.
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1776 FLORIDA STATE UNIVERSITY **3736**
JET AEROACOUSTICS: NOISE GENERATION MECHANISMS AN D PREDICTION
10/26/1995 – 12/31/1997 FY97: $80,000 Total: $155,000
Prin. Invest.: C W TAM
Tech. Officer: LARC/J S PREISSER, LARC/T D NORUM
CASE Category: 13 – PHYSICS

NAG 1 1795 FLORIDA STATE UNIVERSITY **3737**
A STUDY OF ATMOSPHERIC FLOW PATTERNS DURING GTE FIELD PROJECTS
01/25/1996 – 10/24/1998 FY97: $0 Total: $59,662
Prin. Invest.: H E FUELBERG
Tech. Officer: LARC/G L GREGORY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1817 FLORIDA STATE UNIVERSITY **3738**
THE USE OF COUNTERFLOW FOR MIXING ENHANCEMENT AND NOISE SUPPRESSION OF A SUPERSONIC RECTANGULAR JET
03/11/1996 – 03/10/1997 FY97: –$276 Total: $49,706
Prin. Invest.: A KROTHAPALLI, C SHIH
Tech. Officer: LARC/D J WING, LARC/B L BERRIER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1889 FLORIDA STATE UNIVERSITY **3739**
PREDICTION OF COMPRESSIBLE JET FLOW FIELDS AND AERODYNAMIC SOUND_FIELD
01/09/1997 – 12/31/1997 FY97: $105,000 Total: $105,000
Prin. Invest.: M Y HUSSANI
Tech. Officer: LARC/J M SEINER, LARC/M K PONTON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1952 FLORIDA STATE UNIVERSITY **3740**
MEASUREMENT OF UNSTEADY VELOCITY FIELDS IN SUPER SONIC JET FLOWS USING PIV
07/01/1997 – 10/31/1997 FY97: $50,000 Total: $50,000
Prin. Invest.: L LOURENCO
Tech. Officer: LARC/J M SEINER, LARC/B JANSEN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 1082 FLORIDA STATE UNIVERSITY **3741**
INTERNATIONAL SYMPOSIUM ON THEORETICAL & COMPUTATI ONAL FLUID DYNAMICS
08/23/1996 – 04/30/1997 FY97: $0 Total: $5,000
Prin. Invest.: M Y HUSSAINI
Tech. Officer: ARC/J FLORES, ARC/C A SMITH
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 1098 FLORIDA STATE UNIVERSITY **3742**
NUMERICAL SIMULATIONS & DIAGONISTIC STUDIES OF STM OSPHERIC TRANSPORT DURING SONEX
12/30/1996 – 12/31/1997 FY97: $110,070 Total: $110,070
Prin. Invest.: H E FUELBERG
Tech. Officer: ARC/E P CONDON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 3 1284 FLORIDA STATE UNIVERSITY **3743**
THEOR STUDIES OF RESID ACCEL INA MICROGRAV ENVIR: STOCHASTIC FORMULATION OF FLUID FLOW PHENOMENA
06/14/1991 – 08/08/1996 FY97: $0 Total: $726,196
Prin. Invest.: J VINALS
Tech. Officer: LERC/T K GLASGOW
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1683 FLORIDA STATE UNIVERSITY **3744**
JET MIXING NOISE FROM FINE SCALE TURBULENCE
12/01/1994 – 09/30/1998 FY97: $98,000 Total: $242,810
Prin. Invest.: C K TAM
Tech. Officer: LERC/E A KREJSA, LERC/J F GROENEWEG
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1841 FLORIDA STATE UNIVERSITY **3745**
THERETICAL STUDIES OF LIQUID HELIUM NEAR THE SUPER FLUID TRANSITION
05/01/1996 – 04/30/2000 FY97: $37,000 Total: $100,000
Prin. Invest.: E MANOUSAKIS, NONE
Tech. Officer: LERC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 3 1885 FLORIDA STATE UNIVERSITY **3746**
FLUID PHYSICS IN STOCHASTIC ACCELERATON ENVIRONMEN T
06/17/1996 – 06/16/2000 FY97: $109,961 Total: $214,956
Prin. Invest.: J VINALS
Tech. Officer: LERC/A CHAIT
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1962 FLORIDA STATE UNIVERSITY **3747**
INTERNATIONAL SYMPOSIUM ON THEORETICAL & COMPUTATI ONAL FLUID DYNAMICS
09/06/1996 – 04/30/1997 FY97: $0 Total: $5,000
Prin. Invest.: M Y HUSSANINI
Tech. Officer: LERC/L A POVINELLI
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 1595 FLORIDA STATE UNIVERSITY **3748**
USE OF MICROWAVE RAINFALL AND PRECIPITABLE WATER E STIMATES IN GLOBAL MODEL INITIALIZATION AND PRE..
05/13/1991 – 07/31/1997 FY97: $5,000 Total: $545,947
Prin. Invest.: T N KRISHNAMURTI
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 – ATMOSPHERICSCIENCE

NAG 5 1660 FLORIDA STATE UNIVERSITY **3749**
VARIATIONAL DATA ASSIMILATION WITH SEMI–IMPLICIT S EMI–LAGRANGIAN SHALLOW WATER EQUATION MODEL
07/15/1991 – 10/31/1997 FY97: $55,000 Total: $522,906
Prin. Invest.: I M NAVON
Tech. Officer: GSFC/J R BATES
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2447 FLORIDA STATE UNIVERSITY **3750**
QUALITY ASSURANCE OF BOREAS NET RADIATION MEASUREM ENT
11/30/1993 – 09/30/1997 FY97: $111,202 Total: $489,202
Prin. Invest.: E A SMITH
Tech. Officer: GSFC/F G HALL, GSFC/P J SELLERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2672 FLORIDA STATE UNIVERSITY **3751**
VERTICALLY RESOLVED PRECIPITATION RETRIEVAL USING PASSIVE MAICROWAVE ONLY AND COMBINED PASSIVE MICRO
08/11/1994 – 08/14/1997 FY97: $3,000 Total: $325,000
Prin. Invest.: E SMITH
Tech. Officer: GSFC/A NEGRI
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2719 FLORIDA STATE UNIVERSITY **3752**
GROUND TRUTH FOR TRMM IN FLORIDA
09/08/1994 – 09/14/1998 FY97: $100,000 Total: $260,000
Prin. Invest.: P S SMITH
Tech. Officer: GSFC/O THIELE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 2970 FLORIDA STATE UNIVERSITY **3753**
GEOMAGNETIC FIELD ANALYSIS IN CONJUNCTION WITH THE ORSTED MISSION
06/12/1995 – 06/30/1998 FY97: $50,000 Total: $150,000
Prin. Invest.: J CAIN
Tech. Officer: GSFC/P TAYLOR
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3185 FLORIDA STATE UNIVERSITY **3754**
ANALYSIS AND COMPARISON OF ATMOSPHERIC OZONE DATA
03/21/1996 – 12/31/1996 FY97: $0 Total: $5,852
Prin. Invest.: D C CAIN
Tech. Officer: GSFC/R D MCPETERS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4729 FLORIDA STATE UNIVERSITY **3755**
INITIALIZATION AND HIGH RESOLUTION GLOBAL PREDICTI DATA FROM TRMM PROGRAM AREA: MODELING, ANALYSIS,
07/03/1997 – 06/30/1998 FY97: $116,697 Total: $116,697
Prin. Invest.: T N KRISHNAMURTI
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4752 FLORIDA STATE UNIVERSITY **3756**
VALIDATING TRMM–DERIVED LATENT HEATING DISTRIBUTIO COMBINED–INSTRU. RETRIEVAL ALGORITHM INCLUD. IMPA
06/18/1997 – 05/31/1998 FY97: $110,000 Total: $110,000
Prin. Invest.: E A SMITH
Tech. Officer: GSFC/A J NEGRI
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4813 FLORIDA STATE UNIVERSITY **3757**
STUDIES OF VARIABLE CLIMATE PROCESS
06/19/1997 – 09/30/1998 FY97: $163,925 Total: $163,925
Prin. Invest.: W DEWAR
Tech. Officer: GSFC/E J LINDSTROM
CASE Category: 33 – OCEANOGRAPHY

NAG 5 4873 FLORIDA STATE UNIVERSITY **3758**
USING NASA FULL PHYSICS ADJOINT OF THE GEOS–1 GCM ANALYSIS, SENSITIVITY ANALYSIS AND OPTIMAL SENSOR
07/03/1997 – 05/31/1998 FY97: $107,576 Total: $107,576
Prin. Invest.: I NAVON
Tech. Officer: GSFC/M HALL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4921 FLORIDA STATE UNIVERSITY **3759**
SIBERIAN PERMAFROST: APPLICATIONS TO MARS
07/07/1997 – 05/31/1998 FY97: $117,372 Total: $117,372
Prin. Invest.: D FRIEDMANN
Tech. Officer: GSFC/M A MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 6258 FLORIDA STATE UNIVERSITY **3760**
AN INTERCOMPARISON OF THE INFLUENCE OF VEGETATION SURFACE–ATMOSPHERE WATER EXCHANGE AND BOUNDARY LAY
08/27/1997 – 01/31/1998 FY97: $60,000 Total: $60,000
Prin. Invest.: E SMITH
Tech. Officer: GSFC/D WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 8 1163 FLORIDA STATE UNIVERSITY **3761**
ANALYSIS OF ELECTROPHORETIC TRANSPORT
08/30/1995 – 08/29/1998 FY97: $119,048 Total: $308,215
Prin. Invest.: B R LOCKE
Tech. Officer: MSFC/P H RHODES, MSFC/T Y MILLER
CASE Category: 43 – CHEMICAL ENGR

NAG 8 1199 FLORIDA STATE UNIVERSITY **3762**
IMPACT STUDIES OF NEWER DATA SETS ON VERY HIGH RE– SOLUTION GLOBAL FORECAST
11/13/1995 – 11/12/1997 FY97: $70,000 Total: $145,943
Prin. Invest.: T N KRISHNAMURTI
Tech. Officer: MSFC/D FITZJARRALD, MSFC/J ROTHERMEL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 985 FLORIDA STATE UNIVERSITY **3763**
DATA ASSIMUL. IN OCEAN CIRCULATION
11/01/1986 – 09/30/1998 FY97: $180,000 Total: $1,518,000
Prin. Invest.: J J O'BRIEN
Tech. Officer: HQ/G S LAGERLOEF, HQ/W S WILSON
CASE Category: 33 – OCEANOGRAPHY

NAGW 3326 FLORIDA STATE UNIVERSITY **3764**
THEORETICAL STUDIES OF THE TRANSITION IN LIQUID
01/06/1993 – 12/31/1995 FY97: $0 Total: $180,000
Prin. Invest.: E MANOUSAKIS
Tech. Officer: HQ/M C LEE
CASE Category: 12 – CHEMISTRY

NAGW 3495 FLORIDA STATE UNIVERSITY **3765**
NAGW–3495/FLORIDA STATE UNIV/MARINE PHYTOPLANKTON ANNUAL CARBON PRODUCTION, NEW NITROGEN PRODUCTION
04/22/1993 – 05/31/1998 FY97: $0 Total: $180,000
Prin. Invest.: R IVERSON
Tech. Officer: HQ/R E MURPHY, HQ/D M BUTLER
CASE Category: 33 – OCEANOGRAPHY

NAGW 3855 FLORIDA STATE UNIVERSITY **3766**
FLORIDA STATE UNIV – CONTROLS ON METHANE EMISSIONS FROM VEGE-TATED WETLANDS:SUBSTRATE, OXIDATION,TRAN
01/13/1994 – 09/30/1997 FY97: $0 Total: $150,000
Prin. Invest.: J CHANTON
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3970 FLORIDA STATE UNIVERSITY **3767**
"WETNET INTERCOMPARISON–VALIDATION STUDIES OF SSM PRECIPITA-TIONOF RETRIEVAL ALGORITHMS"
04/25/1994 – 09/30/1997 FY97: $0 Total: $415,000
Prin. Invest.: E A SMITH
Tech. Officer: HQ/J C DODGE, HQ/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4044 FLORIDA STATE UNIVERSITY **3768**
SIBERIAN PERMAFROST: APPLICATIONS TO MARS
08/22/1994 – 05/31/1996 FY97: $0 Total: $344,412
Prin. Invest.: E I FRIEDMANN
Tech. Officer: HQ/M MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 4883 FLORIDA STATE UNIVERSITY **3769**
STUDIES OF VARIABLE CLIMATE PROCESSES
12/11/1995 – 09/30/1997 FY97: $120,000 Total: $240,000
Prin. Invest.: W K DEWAR
Tech. Officer: HQ/N MAYNARD
CASE Category: 33 – OCEANOGRAPHY

NAS 8 40632 FLORIDA STATE UNIVERSITY **3770**
FURNANCE & COIL FURNANCE
08/14/1995 – 06/16/1997 FY97: $0 Total: $89,373
Prin. Invest.: M BIRD
Tech. Officer: MSFC/L JETER
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 30170 FLORIDA STATE UNIVERSITY **3771**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/23/1993 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: J CHANTON
Tech. Officer: HQ/GASRAR, HQ/D M BUTLER
CASE Category: 33 – OCEANOGRAPHY

NGT 30214 FLORIDA STATE UNIVERSITY **3772**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/25/1993 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: H E FUELBERG
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1917 THE UNIVERSITY OF CENTRAL FLORIDA **3773**
A LOW LOSS MICROSTRIP ANTENNA FOR RADIOMETRIC APPLICATIONS
04/24/1997 – 04/23/1998 FY97: $31,918 Total: $31,918
Prin. Invest.: C G CHRISTODOULOU, P F WAHID
Tech. Officer: LARC/M C BAILEY
CASE Category: 45 – ELECTRICAL ENGR

NAG 2 4005 THE UNIVERSITY OF CENTRAL FLORIDA **3774**
ABOVE REAL TIME TRAINING ABOVE REAL-TIME TRAINING (ARTT) OF EMERGENCY
05/11/1994 – 09/30/1996 FY97: -$6,488 Total: $53,582
Prin. Invest.: D GUCKENBERGER, W SWART
Tech. Officer: DFRC/J KOLF, DFRC/J GERA
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 3262 THE UNIVERSITY OF CENTRAL FLORIDA **3775**
COUPLING ECOSYSTEMS AND REMOTE SENSING MODELS TO S IMULATE GAP – AND LANDSCAPE
07/01/1996 – 06/30/1997 FY97: $0 Total: $23,996
Prin. Invest.: J F WEISHAMPEL
Tech. Officer: GSFC/K RANSON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3547 THE UNIVERSITY OF CENTRAL FLORIDA **3776**
COMPARISON OF SLICER WAVEFORMS WITH SIMULATED CANO PY PROFILES
11/29/1996 – 08/31/1997 FY97: $12,000 Total: $12,000
Prin. Invest.: J WEISHAMPEL
Tech. Officer: GSFC/D HARDING
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 5202 THE UNIVERSITY OF CENTRAL FLORIDA **3777**
DETECTING AND MODELING SPATIAL CANOPY PROPERTIES O F FORESTED LANDSCAPES
10/03/1996 – 06/30/1998 FY97: $161,370 Total: $161,370
Prin. Invest.: J F WEISHAMPEL
Tech. Officer: HQ/G ASRAR, HQ/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG10 120 THE UNIVERSITY OF CENTRAL FLORIDA **3778**
AUTOMATED DATA BASE DESIGN FROM NATURAL LANGUAGE INPUT
01/15/1993 – 03/14/1997 FY97: $0 Total: $279,999
Prin. Invest.: F GOMEZ
Tech. Officer: KSC/C DELAUNE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG10 141 THE UNIVERSITY OF CENTRAL FLORIDA **3779**
VARIABLE FORM DATA COLLECTION & ANALYSIS
06/21/1994 – 06/20/1997 FY97: $0 Total: $198,528
Prin. Invest.: W W SWART
Tech. Officer: KSC/T BARTH
CASE Category: 22 – COMPUTER SCIENCE

NAG10 147 THE UNIVERSITY OF CENTRAL FLORIDA **3780**
DEVELOPMENT OF ADVANCED LIFE SUPPORT AUTOMATED REMOTE MANIPULATED (ALSARM)
11/10/1994 – 11/14/1997 FY97: $50,919 Total: $146,919
Prin. Invest.: R W JOHNSON
Tech. Officer: KSC/J SAGER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG10 152 THE UNIVERSITY OF CENTRAL FLORIDA **3781**
CHARACTERIZATION & EVALUATION OF ACID RAIN
01/09/1995 – 01/08/1997 FY97: -$588 Total: $36,255
Prin. Invest.: B C MADSEN
Tech. Officer: KSC/W M KNOTT
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAG10 158 THE UNIVERSITY OF CENTRAL FLORIDA **3782**
PERFORMANCE TESTING & ANALYSIS
05/17/1995 – 08/09/1996 FY97: -$2,930 Total: $47,070
Prin. Invest.: S S KUO
Tech. Officer: KSC/C L JENKINS
CASE Category: 44 – CIVIL ENGR

NAG10 162 THE UNIVERSITY OF CENTRAL FLORIDA **3783**
ENHANCEMENT OF IN-SUTU ZERO VALENT
06/14/1995 – 06/18/1998 FY97: $0 Total: $167,110
Prin. Invest.: C A CLAUSEN, D R REINHART
Tech. Officer: KSC/J RYAN
CASE Category: 43 – CHEMICAL ENGR

NAG10 163 THE UNIVERSITY OF CENTRAL FLORIDA **3784**
CONCRETE REBAR CORROSION PROTECTION
06/05/1995 – 12/31/1997 FY97: $0 Total: $100,010
Prin. Invest.: V H DESAI
Tech. Officer: KSC/R LEE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG10 194 THE UNIVERSITY OF CENTRAL FLORIDA **3785**
STUDY FOR BISTATIC RADAR SYSTEM AS WIND PROFILER AT KSC
06/14/1996 – 12/31/1997 FY97: $0 Total: $24,847
Prin. Invest.: C G CHRISTODOULOU
Tech. Officer: KSC/C LENNON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG10 197 THE UNIVERSITY OF CENTRAL FLORIDA **3786**
RESEARCH SCHOLARS PROGRAM CONCRETE REBAR CORROSION
09/10/1996 – 09/09/1997 FY97: $0 Total: $7,196
Prin. Invest.: J SMITH
Tech. Officer: KSC/R LEE
CASE Category: 13 – PHYSICS

NAG10 198 THE UNIVERSITY OF CENTRAL FLORIDA **3787**
PERMEABLE REACTIVE WALL FIELD SCALE APPLICATION PHASE II AND IV
09/30/1996 – 01/31/1999 FY97: $0 Total: $549,016
Prin. Invest.: D REINHART
Tech. Officer: KSC/M COLLINS
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAG10 199 THE UNIVERSITY OF CENTRAL FLORIDA **3788**
PROJECT MANAGEMENT TO KSC'S TRANSITION
09/23/1996 – 12/15/1997 FY97: $20,129 Total: $43,124
Prin. Invest.: T KOTHOUR
Tech. Officer: KSC/G BUCKINHAM
CASE Category: 49 – ENGINEERING, OTHER

NAG10 207 THE UNIVERSITY OF CENTRAL FLORIDA **3789**
NASA–ASEE SUMMER FACULTY FELLOWSHIP PROGRAM
03/21/1997 – 12/31/1997 FY97: $366,000 Total: $366,000
Prin. Invest.: E R HOSLER
Tech. Officer: KSC/G BUCKINGHAM
CASE Category: 49 – ENGINEERING, OTHER

NAG10 215 THE UNIVERSITY OF CENTRAL FLORIDA **3790**
DEVEL ELECTRONKINETIC TECHNIQUE
04/17/1997 – 04/16/1999 FY97: $225,000 Total: $225,000
Prin. Invest.: C GEIGER
Tech. Officer: KSC/J QUINN
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG10 227 THE UNIVERSITY OF CENTRAL FLORIDA **3791**
APPLIED TRAINING PROJECT MGMT FRAMEWORK FOR ORGANIZATIONAL TRANSITIONS
08/04/1997 – 05/31/1998 FY97: $56,784 Total: $56,784
Prin. Invest.: T KOTNOUR
Tech. Officer: KSC/S BARTON
CASE Category: 62 – PSYCHOLOGY SOCIAL ASPECTS

NAG10 228 THE UNIVERSITY OF CENTRAL FLORIDA **3792**
METHODOLOGIES USING WATER TESTS ON LARGE SCALE SPACECRAFT HARDWARE
06/13/1997 – 05/31/1998 FY97: $45,000 Total: $45,000
Prin. Invest.: C CLAUSEN, III
Tech. Officer: KSC/O MELENDEZ
CASE Category: 49 – ENGINEERING, OTHER

NAG10 230 THE UNIVERSITY OF CENTRAL FLORIDA **3793**
AEROSPACE RESEARCH & EDUCATIONAL NEEDS & ACTIVITIES IN THE STATE OF FL
09/17/1997 – 05/30/1998 FY97: $52,514 Total: $52,514
Prin. Invest.: J G KOTNOUR
Tech. Officer: KSC/O MCLENDEZ
CASE Category: 41 – AERONAUTICAL ENGNR

NAS 5 96135 THE UNIVERSITY OF CENTRAL FLORIDA **3794**
TROPICAL RAINFALL MEASURING MISSION "GROUND TRUTH" VALIDATION
10/01/1996 – 01/31/1998 FY97: $90,000 Total: $90,000
Prin. Invest.: L JONES
Tech. Officer: GSFC/O THIELE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC10 20 THE UNIVERSITY OF CENTRAL FLORIDA **3795**
PILOT SCALE EVALUATION OF NEW TECH CONTROL NOX EMISSIONS AT KSC
05/01/1996 – 04/30/1998 FY97: $150,588 Total: $297,225
Prin. Invest.: C D COOPER, C A CLAUSEN
Tech. Officer: KSC/J QUINN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 51402 THE UNIVERSITY OF CENTRAL FLORIDA **3796**
GSRP
07/31/1995 – 08/20/1997 FY97: $0 Total: $44,000
Prin. Invest.: D MOSHELL
Tech. Officer: HQ/D HOLLAND
CASE Category: 22 – COMPUTER SCIENCE

NGT 60002 THE UNIVERSITY OF CENTRAL FLORIDA **3797**
SUMMER FACULTY FELLOWSHIP PROGRAM RESEARCH
03/31/1988 – 06/01/1997 FY97: $0 Total: $2,453,987
Prin. Invest.: L A ANDERSON
Tech. Officer: HQ/A S MCGEE, HQ/E T SCHWARTZ
CASE Category: 49 – ENGINEERING, OTHER

NGT 90046 THE UNIVERSITY OF CENTRAL FLORIDA **3798**
NASA SCHOLARS
08/20/1991 – 08/31/1996 FY97: $0 Total: $108,276
Prin. Invest.: J SMITH, S RICE
Tech. Officer: HQ/B WHITE
CASE Category: 49 – ENGINEERING, OTHER

NGT 90059 THE UNIVERSITY OF CENTRAL FLORIDA **3799**
SUMMER PROGRAM FOR ACADEMIC CAREERS IN ENGINEERING (SPACE)
03/31/1992 – 03/31/1997 FY97: $0 Total: $528,671
Prin. Invest.: S RICE, J A SMITH
Tech. Officer: HQ/B WHITE
CASE Category: 49 – ENGINEERING, OTHER

NGT 90159 THE UNIVERSITY OF CENTRAL FLORIDA **3800**
NASA KSC/UCF SPACE SCHOLARS PROGRAM
05/20/1993 – 05/31/1997 FY97: $0 Total: $345,532
Prin. Invest.: J A SMITH
Tech. Officer: HQ/J M MACKALL
CASE Category: 49 – ENGINEERING, OTHER

NGT 90170 THE UNIVERSITY OF CENTRAL FLORIDA **3801**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
09/09/1993 – 08/14/1996 FY97: –$2,384 Total: $33,616
Prin. Invest.: J SMITH
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40015 THE UNIVERSITY OF CENTRAL FLORIDA **3802**
FLORIDA SPACE GRANT CONSORTIUM (GLOBE WORKSHOP)
10/25/1996 – 12/31/1996 FY97: $19,992 Total: $19,992
Prin. Invest.: H CAMPING
Tech. Officer: HQ/L KEEFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50128 THE UNIVERSITY OF CENTRAL FLORIDA **3803**
CONSTRAINED PHYSICAL MODELING IN VIRTUAL ENVIRONME
09/09/1997 – 08/14/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: C PARSONS
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90028 THE UNIVERSITY OF CENTRAL FLORIDA **3804**
UNDERGRADUATE STUDENT AWARDS AND RESEARCH (USAR)
01/24/1997 – 08/14/1997 FY97: $12,000 Total: $12,000
Prin. Invest.: J SMITH
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 49 – ENGINEERING, OTHER

NGT10 52605 THE UNIVERSITY OF CENTRAL FLORIDA **3805**
1996 SUMMER FACULTY FELLOWSHIP
04/17/1996 – 12/31/1997 FY97: $0 Total: $406,000
Prin. Invest.: R W JOHNSON, E R HOSLER
Tech. Officer: KSC/G BUCKINGHAM
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT10 52606 THE UNIVERSITY OF CENTRAL FLORIDA **3806**
GRADUATE STUDENTS RESEARCHERS PROGRAM
04/18/1996 – 06/30/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: M F SIEMER
Tech. Officer: KSC/R WERLINK
CASE Category: 12 – CHEMISTRY

NGT10 52608 THE UNIVERSITY OF CENTRAL FLORIDA **3807**
GRADUATE STUDENTS RESEARCHERS PROGRAM
04/18/1996 – 04/30/1997 FY97: –$165 Total: $21,835
Prin. Invest.: P L HEARD
Tech. Officer: KSC/L MAIER
CASE Category: 21 – MATHEMATICS

NAG 1 1474 UNIVERSITY OF FLORIDA **3808**
A STUDY OF THE INTERACTION OF CONVECTION WITH SOLIDIFICATION
01/12/1993 – 01/10/1998 FY97: $102,272 Total: $437,193
Prin. Invest.: T J ANDERSON, R NARAYANAN
Tech. Officer: LARC/A L FRIPP
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 1 1486 UNIVERSITY OF FLORIDA **3809**
APPLICATION OF PRESSURE–SENSITIVE PAINT TO MASS BLEED INDUCED OSCILLATIONS TO SHOCK/BOUNDARYLAYER
02/17/1993 – 02/11/1997 FY97: –$61 Total: $123,130
Prin. Invest.: B F CARROL
Tech. Officer: LARC/W L SELLERS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1669 UNIVERSITY OF FLORIDA **3810**
VARIABLE COMPLEXITY OPTIMIZATION OF COMPOSITE STRU CTURES
01/17/1995 – 01/16/1998 FY97: $152,059 Total: $395,600
Prin. Invest.: R T HAFTKA
Tech. Officer: LARC/J H STARNES, LARC/C J CAMARDA
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1792 UNIVERSITY OF FLORIDA **3811**
DEVELOPMENT OF PRESSURE SENSITIVE PARTS
01/22/1996 – 01/21/1997 FY97: $0 Total: $30,187
Prin. Invest.: D F CARROLL
Tech. Officer: LARC/W L SELLERS, III
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1808 UNIVERSITY OF FLORIDA **3812**
VARIABLE COMPLEXITY STRUCTURAL OPTIMIZATION OF LAUNCH VEHICLES
02/07/1996 – 02/06/1998 FY97: $19,863 Total: $71,863
Prin. Invest.: R T HAFTKA
Tech. Officer: LARC/C J CAMARDA, LARC/T F JOHNSON
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 1 1809 UNIVERSITY OF FLORIDA **3813**
DEVELOPMENT OF TEMPERATURE SENSITIVE PAINTS FOR WIND TUNNELL
03/04/1996 – 11/30/1997 FY97: $75,000 Total: $150,210
Prin. Invest.: K S SCHANZE
Tech. Officer: LARC/B T UPCHURCH, LARC/M MITCHELL
CASE Category: 12 – CHEMISTRY

NAG 1 1887 UNIVERSITY OF FLORIDA **3814**
DAMAGE TOLERANCE OF SANDWICH PLATES WITH DEBONDED FACE SHEETS
01/27/1997 – 10/31/1997 FY97: $47,999 Total: $47,999
Prin. Invest.: B V SANKAR
Tech. Officer: LARC/J R CRUZ
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 667 UNIVERSITY OF FLORIDA **3815**
"CONTINUED TESTING OF THE GALILEO LIGHTNING AND RA DIO EMISSION DETECTOR"
10/09/1990 – 03/31/1998 FY97: $25,397 Total: $285,715
Prin. Invest.: M A UMAN, NONE
Tech. Officer: ARC/L E LASHER, ARC/R E YOUNG
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 972 UNIVERSITY OF FLORIDA **3816**
FAR-INFRARED CALIBRATION FOR THE INFRARED SPACE OB SERVATORY
03/22/1995 – 09/30/1996 FY97: $0 Total: $65,012
Prin. Invest.: C M TELESCO
Tech. Officer: ARC/C D LAUGHLIN, ARC/C M GILLESPIE, JR.
CASE Category: 11 – ASTRONOMY

NAG 3 1096 UNIVERSITY OF FLORIDA **3817**
IN-SITU MONITORING OF CRYSTAL GROWTH USING MEPHIST O
12/26/1989 – 12/31/1996 FY97: -$643 Total: $1,013,379
Prin. Invest.: G J ABBACHIAN, F EBRAHIMI, A B GOKHALE
Tech. Officer: LERC/G J SANTORO
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1340 UNIVERSITY OF FLORIDA **3818**
LOW EMISSION COMBUSTOR NUMERICAL SIMULATION BY SUB COMPACT SYNTHESIS
03/24/1992 – 12/31/1996 FY97: $0 Total: $175,179
Prin. Invest.: N S WINOWICH
Tech. Officer: LERC/K P KUNDU, LERC/J M DEUR
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1635 UNIVERSITY OF FLORIDA **3819**
MARANGONI EFFECTS ON THE BUBBLE DYNAMICS IN A PRES SURE DRIVEN FLOW
06/29/1994 – 06/28/1997 FY97: -$671 Total: $99,329
Prin. Invest.: C W PARK
Tech. Officer: LERC/B S SINGH
CASE Category: 43 – CHEMICAL ENGR

NAG 5 2614 UNIVERSITY OF FLORIDA **3820**
RAPID THERMAL PROCESSING OF SEMICONDUCTORS IN SPAC E
06/23/1994 – 06/14/1997 FY97: $0 Total: $285,000
Prin. Invest.: T J ANDERSON, K JONES
Tech. Officer: GSFC/L R PURVES
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 5 2654 UNIVERSITY OF FLORIDA **3821**
DYNAMICAL INTERPRETATION OF THE BROAD SCALE, NARRO W SCALE AND RESONANT STRUCTURE
07/14/1994 – 07/14/1997 FY97: $0 Total: $99,000
Prin. Invest.: S F DERMOTT
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2835 UNIVERSITY OF FLORIDA **3822**
PROBING LARGE SCALE STRUCTURE: THE THREE-POINT FUNCTION
12/12/1994 – 12/14/1997 FY97: $0 Total: $150,000
Prin. Invest.: J N FRY
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3343 UNIVERSITY OF FLORIDA **3823**
CALIBRATION AND ASTROPHYSICS WITH ISO
08/09/1996 – 08/14/1997 FY97: $0 Total: $265,118
Prin. Invest.: C M TELESCO
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3772 UNIVERSITY OF FLORIDA **3824**
HUMAN DIMENSIONS OF DEFORESTATION & REGROWTH IN TH TEGRATING DATA FROM SATELLITES, DEMOGRAPHIC CENSU
03/11/1997 – 02/28/1999 FY97: $536,368 Total: $536,368
Prin. Invest.: D SANDERSON
Tech. Officer: GSFC/N MAYNARD
CASE Category: 39 – ENVIRONMENTAL SCI,OTHER

NAG 5 3936 UNIVERSITY OF FLORIDA **3825**
RELATIVISTIC AND GRAVITATIONAL PHYSICS
04/04/1997 – 12/31/1997 FY97: $53,500 Total: $53,500
Prin. Invest.: P R IPSER
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 4036 UNIVERSITY OF FLORIDA **3826**
COMETS: A COORDINATED GROUND AND SPACE BASED INFRA TAXONOMIC CLASSES
04/09/1997 – 11/30/1997 FY97: $44,179 Total: $44,179
Prin. Invest.: D CAMPINS
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 4204 UNIVERSITY OF FLORIDA **3827**
A COORDINATED GROUND AND SPACE BASED INFRARED STUD (C/1995 01)
03/26/1997 – 03/14/1999 FY97: $41,680 Total: $41,680
Prin. Invest.: D CAMPINS
Tech. Officer: GSFC/W HUEBNER
CASE Category: 11 – ASTRONOMY

NAG 5 4287 UNIVERSITY OF FLORIDA **3828**
CARBON SPECIES AS POSSIBLE CARRIERS OF THE UIRS
04/29/1997 – 04/14/1998 FY97: $76,000 Total: $76,000
Prin. Invest.: D T VALA
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 4531 UNIVERSITY OF FLORIDA **3829**
DYNAMICS OF SOLAR SYSTYEM DUST
05/08/1997 – 02/28/1998 FY97: $82,800 Total: $82,800
Prin. Invest.: D F DERMOTT
Tech. Officer: HQ/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4547 UNIVERSITY OF FLORIDA **3830**
PLANETARY AEROSOL MONITOR/INTEGRATED DUST ANALYZER
05/06/1997 – 05/31/1998 FY97: $135,443 Total: $135,443
Prin. Invest.: D GUSTAFSON
Tech. Officer: GSFC/B CAMPBELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 4587 UNIVERSITY OF FLORIDA **3831**
A NOVEL METHOD FOR AIR REVITALIZATION: CO2 REMOVA PULSATING DEVICE
05/20/1997 – 02/28/1998 FY97: $65,994 Total: $65,994
Prin. Invest.: R NARAYANAN
Tech. Officer: GSFC/M AVERNER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 4996 UNIVERSITY OF FLORIDA **3832**
DURATION OF COMETARY ACTIVITY ON THE ASTEROID PHAE
07/24/1997 – 04/30/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: D GUSTAFSON
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 8 280 UNIVERSITY OF FLORIDA **3833**
AUTOMATED SPACE ROPBTICS FOR SATELLITE RESCUE
03/01/1993 – 12/30/1996 FY97: –$1,188 Total: $223,140
Prin. Invest.: N FITZ–COY
Tech. Officer: MSFC/F SIX
CASE Category: 49 – ENGINEERING, OTHER

NAG 8 946 UNIVERSITY OF FLORIDA **3834**
FUNDAMENTALS OF THERMOMIGRATION OF LIQUID ZONES THROUGH SOLIDS
01/08/1993 – 01/06/1996 FY97: –$1,833 Total: $418,167
Prin. Invest.: M J KAUFMAN
Tech. Officer: MSFC/M F VOLZ
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 8 1092 UNIVERSITY OF FLORIDA **3835**
JOVE
09/12/1994 – 05/31/1997 FY97: $0 Total: $21,025
Prin. Invest.: S T GOTTESMAN
Tech. Officer: MSFC/F SIX
CASE Category: 11 – ASTRONOMY

NAG 8 1243 UNIVERSITY OF FLORIDA **3836**
FOR RESEARCH ENTITLED AN ELECTROMECHANICAL METROD TO VISU-LIZE FLOW AND MEASURE DIFFUSIVITY
05/28/1996 – 05/27/1998 FY97: $75,000 Total: $225,000
Prin. Invest.: T J ANDERSON, R NARAYANAN
Tech. Officer: MSFC/C R TALLEY, MSFC/DOWNEY, JR.
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 8 1244 UNIVERSITY OF FLORIDA **3837**
THE FEATURES OF SELF–ASSEMBLING ORGANIC BILAYERS
05/01/1996 – 04/30/1998 FY97: $35,000 Total: $105,000
Prin. Invest.: D R TALHAM, J H ADAIR
Tech. Officer: MSFC/C R TALLEY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1251 UNIVERSITY OF FLORIDA **3838**
R/S " CONFINEMENT AND PROPULSION CHARACTERISTICS OF THE GAS-DYNAMIC MIRROR FUSION ROCKET"
12/23/1996 – 12/31/1997 FY97: $125,000 Total: $125,000
Prin. Invest.: S ANGHZIE
Tech. Officer: MSFC/W J EMRICH, JR.
CASE Category: 47 – METAL & MATERIALS ENGR

NAGW 1923 UNIVERSITY OF FLORIDA **3839**
DYNAMICS OF SATELLITES AND DUST PARTICLES
01/24/1990 – 09/30/1995 FY97: –$358 Total: $494,642
Prin. Invest.: S F DERMOTT
Tech. Officer: HQ/T A MAXWELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2482 UNIVERSITY OF FLORIDA **3840**
NAGW–2482/UNIV FLORIDA/OPTICAL PROPERTIES OF FLUFF Y DUST–AG-GREGATES IN COMET COMAE & INTERPLANETARY
05/23/1991 – 10/31/1997 FY97: $52,570 Total: $350,280
Prin. Invest.: B GUSTAFSON*Prin. Invest.:* NONE
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAGW 2524 UNIVERSITY OF FLORIDA **3841**
MESO–SCALE DYNAMICS OF THE BOREAL FOREST
08/20/1991 – 12/31/1995 FY97: –$3,626 Total: $590,150
Prin. Invest.: C S HOLLING, L H GUNDERSON
Tech. Officer: HQ/R E MURPHY, HQ/W S WILSON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 2957 UNIVERSITY OF FLORIDA **3842**
SPECTROSCOPIC STUDIES OF POLYCYCLIC AROMATIC CATIO NS IN MATRICES
03/04/1992 – 03/31/1997 FY97: $0 Total: $355,000
Prin. Invest.: M T VALA
Tech. Officer: HQ/L J CAROFF
CASE Category: 11 – ASTRONOMY

NAGW 3570 UNIVERSITY OF FLORIDA **3843**
CLINICAL PRACTICE LIBRARY OF MEDICINE
05/13/1993 – 01/31/1996 FY97: $0 Total: $735,878
Prin. Invest.: R R GRAMS
Tech. Officer: HQ/R J WHITE
CASE Category: 56 – MEDICL

NAGW 4201 UNIVERSITY OF FLORIDA **3844**
INFRARED CALIBRATION FOR THE INFRARED SPACE OBS. NAGW–4201
11/08/1994 – 09/30/1996 FY97: $0 Total: $296,761
Prin. Invest.: C TELESCO
Tech. Officer: HQ/L J CAROFF
CASE Category: 11 – ASTRONOMY

NAGW 4255 UNIVERSITY OF FLORIDA **3845**
UNIVERSITY ADVANCE DESIGN PROGRAM
01/13/1995 – 10/09/1995 FY97: –$34 Total: $17,316
Prin. Invest.: G NEVILL
Tech. Officer: HQ/A S MCGEE
CASE Category: 49 – ENGINEERING, OTHER

NAGW 4258 UNIVERSITY OF FLORIDA **3846**
PREFORMANCE MODELING OF MASS STROAGE ARCHIVES
01/31/1995 – 01/31/1997 FY97: $0 Total: $102,276
Prin. Invest.: T J JOHNSON
Tech. Officer: HQ/R S MCGINNIS
CASE Category: 22 – COMPUTER SCIENCE

NAGW 4329 UNIVERSITY OF FLORIDA **3847**
SATELLITE DATA ASSIMILATION IN THE MIAMI OCEAN MODEL:
03/04/1995 – 09/30/1997 FY97: $0 Total: $205,999
Prin. Invest.: A J MARIANO
Tech. Officer: HQ/R A SCHIFFER
CASE Category: 33 – OCEANOGRAPHY

NAGW 4363 UNIVERSITY OF FLORIDA **3848**
A NOVEL METHOD FOR AIR REVITALIZATION CO2-REMOVAL BY A PULSATING DEVICE
03/22/1995 – 02/28/1997 FY97: $0 Total: $150,419
Prin. Invest.: R R NARAYANAN
Tech. Officer: HQ/M AVERNER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4640 UNIVERSITY OF FLORIDA **3849**
HUMAN DIMENSIONS OF DEFORESTATION AND REGROWTH IN THE BRAZILIAN AMAZON
07/11/1995 – 09/30/1997 FY97: $0 Total: $107,341
Prin. Invest.: S SANDERSON, D SKOLE, C WOOD
Tech. Officer: HQ/N MAYNARD, HQ/R C HARRISS
CASE Category: 79 – SOCIAL SCIENCE, OTHER

NAGW 4705 UNIVERSITY OF FLORIDA **3850**
OPTICAL DUST CHARACTERIZER
08/24/1995 – 05/31/1996 FY97: –$3,155 Total: $41,089
Prin. Invest.: B S GUSTAFSON
Tech. Officer: HQ/TKOSTIUK
CASE Category: 11 – ASTRONOMY

NAGW 4860 UNIVERSITY OF FLORIDA **3851**
DEVELOPMENT OF AN ECOLOGICAL ASSAY OF ECOSYSTEM & ANIMAL COMMUNITY STRUCTURE
11/09/1995 – 08/01/1996 FY97: $0 Total: $100,000
Prin. Invest.: D S HOLLING
Tech. Officer: HQ/D WICKLAND
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAGW 4864 UNIVERSITY OF FLORIDA **3852**
RESEARCH IN GRAVITATIONAL ASTROPHYSICS
11/21/1995 – 12/31/1996 FY97: –$4,416 Total: $47,171
Prin. Invest.: J K IPSER
Tech. Officer: HQ/L TAFF, HQ/D W WEEDMAN
CASE Category: 13 – PHYSICS

NAGW 4916 UNIVERSITY OF FLORIDA **3853**
COMETS: A COORDINATED GROUND AND SPACE BASED INFR ARED STUDY OF 2 TAXONOMIC CLASSES
02/08/1996 – 03/15/1997 FY97: $0 Total: $44,179
Prin. Invest.: H CAMPINS
Tech. Officer: HQ/E BARKER, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 5011 UNIVERSITY OF FLORIDA **3854**
DYNAMICS OF SOLAR SYSTEM DUST
03/20/1996 – 02/28/1997 FY97: $0 Total: $80,000
Prin. Invest.: S DERMOTT
Tech. Officer: HQ/H BRINTON, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 5027 UNIVERSITY OF FLORIDA **3855**
DURATION OF COMETARY ACTIVITY ON THE ASTEROID PHAE THON
04/08/1996 – 04/30/1997 FY97: $0 Total: $40,000
Prin. Invest.: B S GUSTAFSON
Tech. Officer: HQ/H BRINTON, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 5210 UNIVERSITY OF FLORIDA **3856**
PLANETARY AEROSOL MONITOR/INTEGRATED DUST ANALYZER
10/03/1996 – 05/31/1997 FY97: $70,000 Total: $70,000
Prin. Invest.: B S GUSTAFSON
Tech. Officer: HQ/T KOSTIUK, HQ/H C BRINTON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG10 145 UNIVERSITY OF FLORIDA **3857**
GENETICALLY ENGINEERED PLANT BIOMONITOR IN MICRO– GRAVITY
09/21/1994 – 09/30/1998 FY97: $124,677 Total: $486,531
Prin. Invest.: R J FERL
Tech. Officer: KSC/W M KNOTT
CASE Category: 55 – AGRICULTURE

NAG10 177 UNIVERSITY OF FLORIDA **3858**
PERFORMANCE ENHANCEMENT OF HIGH SPEED JET SYSTEM
09/05/1995 – 12/15/1996 FY97: –$169 Total: $49,525
Prin. Invest.: J F KLAUSNER
Tech. Officer: KSC/F N LIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG10 200 UNIVERSITY OF FLORIDA **3859**
PROGRAM TO SUPPORT AND STIMULATE STUDENT'S EDUCA TIONAL ACTIVITIES AND EXPERIENCES
09/27/1996 – 09/30/1997 FY97: $0 Total: $403,096
Prin. Invest.: H CAMPINS
Tech. Officer: KSC/G BUCKINGHAM
CASE Category: 62 – PSYCHOLOGY SOCIAL ASPECTS

NAG10 222 UNIVERSITY OF FLORIDA **3860**
PROGRAM TO SUPPORT & STIMULATE STUDENTS EDUCATION– AL ACTIVITIES & EXPERIENCES
09/09/1997 – 09/30/1998 FY97: $377,285 Total: $377,285
Prin. Invest.: H CAMPINS
Tech. Officer: KSC/R MCKINNEY
CASE Category: 62 – PSYCHOLOGY SOCIAL ASPECTS

NAG10 231 UNIVERSITY OF FLORIDA **3861**
STUDY TO EVALUATE VARIETY OF INCUBATOR MODELS
09/17/1997 – 11/17/1997 FY97: $19,972 Total: $19,972
Prin. Invest.: G JOHNSRUD
Tech. Officer: KSC/K HARER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG10 232 UNIVERSITY OF FLORIDA **3862**
CORPORATE MEMORY & SPACECRAFT COURSE DEVELOPMENT
09/22/1997 – 12/31/1997 FY97: $130,631 Total: $130,631
Prin. Invest.: H CAMPINS, PH.D
Tech. Officer: KSC/G BUCKINGHAM
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAS 3 26314 UNIVERSITY OF FLORIDA **3863**
ULTRA HIGH TEMPERATURE REACTOR AND ENERGY CONVERSI ON
05/30/1991 – 01/07/1998 FY97: $175,000 Total: $2,673,999
Prin. Invest.: N J DIAZ, F ANGHAIE, E T DUGAN
Tech. Officer: LERC/H S BLOOMFIELD
CASE Category: 13 – PHYSICS

NAS 8 40592 UNIVERSITY OF FLORIDA **3864**
CRYSTAL GROWTH OF GAAS AND GASB SEMICONDUCTOR MATERIALS BY THE LIQUID ENCAPSULATED MELT ZONEMET
04/17/1995 – 04/16/1997 FY97: $0 Total: $368,631
Prin. Invest.: R ABBASCHIAN
Tech. Officer: MSFC/J R WATKINS
CASE Category: 47 – METAL & MATERIALS ENGR

NAS 8 97110 UNIVERSITY OF FLORIDA **3865**
OPERATION AND MANAGEMENT FOR THE NASA TECH TRANS– FER CENTER
02/02/1997 – 12/31/1997 FY97: $1,120,496 Total: $1,120,496
Prin. Invest.: J R THORNTON
Tech. Officer: MSFC/J POE
CASE Category: 42 – ASTRONAUTICAL ENGR

NASW 4676 UNIVERSITY OF FLORIDA **3866**
NASW–4676/UNIV OF FLORIDA/NASA RTTC LOCATED IN THE SOUTHEAST REGION OF THE U.S.
12/20/1991 – 12/31/1996 FY97: $91,421 Total: $6,509,951
Prin. Invest.: J R THORNTON
Tech. Officer: MSFC/J BEAN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAS10 11880 UNIVERSITY OF FLORIDA **3867**
ONSITE MEDICAL SUPPORT DURING STS LAUNCH AND LANDING OPERATIONS
01/30/1992 – 09/30/1996 FY97: –$4,373 Total: $512,346
Prin. Invest.: R J MELKER
Tech. Officer: KSC/I D LONG
CASE Category: 56 – MEDICL

NAS10 96004 UNIVERSITY OF FLORIDA **3868**
ON–SITE MEDICAL SUPPORT DURING STS LAUNCH & LAND– ING OPERATIONS
09/13/1996 – 09/30/1997 FY97: $106,435 Total: $112,471
Prin. Invest.: A H NEIMS
Tech. Officer: KSC/D A TIPTON
CASE Category: 56 – MEDICL

NCC 1 216 UNIVERSITY OF FLORIDA **3869**
EFFICIENT APPROXIMATIONS FOR STRUCTURAL OPTIMIZATI ON UNDER MULTIPLE DAMAGE CASES
08/29/1995 – 08/31/1997 FY97: $51,381 Total: $125,881
Prin. Invest.: R T HAFTKA
Tech. Officer: LARC/S J SCOTTI
CASE Category: 49 – ENGINEERING, OTHER

NCC 2 825 UNIVERSITY OF FLORIDA **3870**
ROLE OF CORTICOSTEROIDS IN BONE LOSS DURING SPACE FLIGHT
09/09/1993 – 12/31/1997 FY97: $0 Total: $458,876
Prin. Invest.: T WRONSKI
Tech. Officer: ARC/C M WINGET, ARC/G C JAHNS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 3 476 UNIVERSITY OF FLORIDA **3871**
IN–SITU MONITORING OF CRYSTAL GROWTH USING MEPHIST O
05/22/1996 – 05/21/1999 FY97: $82,500 Total: $112,500
Prin. Invest.: R ABBASCHIAN
Tech. Officer: LERC/C DEGON
CASE Category: 13 – PHYSICS

NCC 8 20 UNIVERSITY OF FLORIDA **3872**
AN ELECTROCHEMICAL METHOD TO MEASURE DIFFUSIVITY IN LIQUID METALS
01/08/1993 – 01/06/1996 FY97: –$21 Total: $404,979
Prin. Invest.: R NARAYANAN, T J ANDERSON, A L FRIP
Tech. Officer: MSFC/D A WATRING
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 8 32 UNIVERSITY OF FLORIDA **3873**
GULF COAST ALLIANCE TECHHOLOGY ACCESS SERVICES
03/22/1994 – 04/23/1997 FY97: $0 Total: $355,154
Prin. Invest.: J R THORTON, W HUFFMAN, C JOHNSRUD
Tech. Officer: MSFC/S LITTLE
CASE Category: 49 – ENGINEERING, OTHER

NCC 8 51 UNIVERSITY OF FLORIDA **3874**
NOVEL ELECTROCHEMICAL METHOD FLOW VISUALIZATION
07/07/1994 – 01/06/1997 FY97: –$238 Total: $114,654
Prin. Invest.: T J ANDERSON, R NARAYANAN
Tech. Officer: MSFC/P N PETERS, MSFC/C E BANKS
CASE Category: 43 – CHEMICAL ENGR

NGT 40015 UNIVERSITY OF FLORIDA **3875**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
10/17/1989 – 09/30/1997 FY97: $0 Total: $2,858,604
Prin. Invest.: H CAMPINS
Tech. Officer: HQ/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51218 UNIVERSITY OF FLORIDA **3876**
GRAD STUDENT RESEARCHERS PROGRAM
04/25/1994 – 06/30/1996 FY97: –$180 Total: $43,820
Prin. Invest.: R L DARNELL
Tech. Officer: KSC/W MARTIN
CASE Category: 55 – AGRICULTURE

NGT 51242 UNIVERSITY OF FLORIDA **3877**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/16/1994 – 08/11/1997 FY97: $0 Total: $44,000
Prin. Invest.: R NARAYANAN
Tech. Officer: LERC/F MONTEGANI
CASE Category: 43 – CHEMICAL ENGR

NGT 51385 UNIVERSITY OF FLORIDA **3878**
GRADUATE STUDIES RESEARCHER PROGRAM
06/26/1995 – 06/30/1998 FY97: $0 Total: $44,000
Prin. Invest.: B S GUSTAFON
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51410 UNIVERSITY OF FLORIDA **3879**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/28/1995 – 02/10/1998 FY97: $0 Total: $44,000
Prin. Invest.: R NARAYANAN
Tech. Officer: HQ/D GLASCO
CASE Category: 43 – CHEMICAL ENGR

NGT 51418 UNIVERSITY OF FLORIDA **3880**
GSRP
08/28/1995 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: R DURAN
Tech. Officer: HQ/G LESANE
CASE Category: 12 – CHEMISTRY

NGT 51655 UNIVERSITY OF FLORIDA **3881**
GRAD STUDENT RESEARCH PROGRAM
08/15/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: C TELESCO
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51656 UNIVERSITY OF FLORIDA **3882**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/08/1996 – 06/30/1997 FY97: $0 Total: $21,500
Prin. Invest.: C TELESCO
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51695 UNIVERSITY OF FLORIDA **3883**
GRAD STUDENT RESEARCH PROGRAM
08/07/1996 – 08/09/1998 FY97: $0 Total: $22,000
Prin. Invest.: R NARAYARAN
Tech. Officer: HQ/G LESANE
CASE Category: 43 – CHEMICAL ENGR

NGT 70332 UNIVERSITY OF FLORIDA **3884**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
06/29/1993 – 12/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: T D CARR
Tech. Officer: HQ/D K RUSSELL
CASE Category: 11 – ASTRONOMY

NGT 3 52320 UNIVERSITY OF FLORIDA **3885**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/06/1996 – 08/10/1998 FY97: $11,000 Total: $33,001
Prin. Invest.: R NARAYANAN
Tech. Officer: HQ/D MONTEGANI
CASE Category: 43 – CHEMICAL ENGR

NGT 5 30022 UNIVERSITY OF FLORIDA **3886**
FIRE, INSECT OUTBREAKS, AND CLIMATE CHANGE IN BORE OF CROSS–SCALE DYNAMICS
10/14/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: C HOLLING
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 40025 UNIVERSITY OF FLORIDA **3887**
THE NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PR
12/19/1996 – 01/31/1998 FY97: $399,998 Total: $399,998
Prin. Invest.: H CAMPINS
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50018 UNIVERSITY OF FLORIDA **3888**
MODIFYING EXISTING INSTRUMENTATION TO ADVANCE PIXO UCTION TECHNIQUES
07/14/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: C M TELESCO
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50021 UNIVERSITY OF FLORIDA **3889**
THE CHEM & PHY PROPERTIES OF COMETS HALE–BOPP (199 6 B2)
07/17/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: H CAMPINS
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 50026 UNIVERSITY OF FLORIDA **3890**
THE EFFECT OF GRAVITY ON THE SEPARATION SPECIES
07/14/1997 – 08/14/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: R NARAYANAN
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50031 UNIVERSITY OF FLORIDA **3891**
DETECTING PLANETS IN CIRCUMSTELLAR DISKS
07/17/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: S DERMOTT
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 50074 UNIVERSITY OF FLORIDA **3892**
RAPID THERMAL PROCESSING OF INDIUM ARSENIDE USING RANSPORT REACTOR_____STUDENT – DANIEL
09/05/1997 – 08/31/1998 FY97: $20,960 Total: $20,960
Prin. Invest.: T ANDERSON
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50081 UNIVERSITY OF FLORIDA **3893**
HIGH PERFORMANCE POLYMERS FOR CATION SEPARATION AN ENVIRONMENTS
09/05/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: DURAN
Tech. Officer: GSFC/L CHAMBERS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50134 UNIVERSITY OF FLORIDA **3894**
A COMPLETE STUDY OF FAR–INFRARED RADIATION IN NEAR OMBINING ISO DATA WITH BRACKETT GAMMA SPECTROSCOP
09/10/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: C M TELSCO
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50168 UNIVERSITY OF FLORIDA **3895**
SCATTERING PROPERTIES OF AGGREGATE DUST PARTICLES GSRP REECIPIENT:JOANNA E. THOMAS–OSIP
09/10/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: B GUSTAFSON
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT13 52710 UNIVERSITY OF FLORIDA **3896**
NASA GRADUATE PROGRAM–USING REMOTE SENSING TECHNIQUES TO ASSESS STRESS CONDITIONS
07/21/1997 – 07/20/1998 FY97: $21,846 Total: $21,846
Prin. Invest.: S SHIH
Tech. Officer: JSC/A JOYCE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 1788 UNIVERSITY OF MIAMI **3897**
EOS VERSION ZERO DAAC VERIFICATION
10/18/1991 – 10/31/1996 FY97: $0 Total: $296,939
Prin. Invest.: R H EVANS
Tech. Officer: GSFC/HK RAMAPRIYAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 1945 UNIVERSITY OF MIAMI **3898**
INTEGRATION OF SLR AND VLBI DATA TO OBTAIN VERY AC CURATE HORIZONTAL AND VERTICAL MOTIONS
03/12/1992 – 09/14/1997 FY97: $0 Total: $216,000
Prin. Invest.: C HARRISON
Tech. Officer: GSFC/B G BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 2207 UNIVERSITY OF MIAMI **3899**
GPS GEODETIC MONITORING OF SOUTH AMERICA – NOZCA P LATE CONVERGENCE (SNAPP)
03/09/1993 – 03/14/1998 FY97: $100,000 Total: $372,000
Prin. Invest.: T H DIXON
Tech. Officer: GSFC/B G BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 2208 UNIVERSITY OF MIAMI **3900**
VOLCANO MONITORING FOR ERUPTION PREDICTION AND FOR ECASTING USING THE GLOBAL POSITIONING SYSTEM
03/09/1993 – 03/14/1998 FY97: $0 Total: $170,000
Prin. Invest.: T H DIXON
Tech. Officer: GSFC/B G BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 2209 UNIVERSITY OF MIAMI **3901**
PRESENT DAY KINEMATICS AND EVALUATION OF TRANSPENI NSULA SLIP IN NORTHERN BAJA CALIFORNIA
03/09/1993 – 03/14/1998 FY97: $0 Total: $292,998
Prin. Invest.: T H DIXON
Tech. Officer: GSFC/B G BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 2969 UNIVERSITY OF MIAMI **3902**
SOURCES OF THE EARTH'S MAGNETIC FIELD STUDIED USING ORSTED DATA
06/15/1995 – 06/30/1998 FY97: $50,000 Total: $150,000
Prin. Invest.: C HARRISON
Tech. Officer: GSFC/P T TAYLOR
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3036 UNIVERSITY OF MIAMI **3903**
GEODETIC MONITORING OF ACTIVE VOLCANOES WITH SAR INTERFEROMETRY
07/27/1995 – 08/14/1998 FY97: $81,000 Total: $175,000
Prin. Invest.: T DIXON
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4020 UNIVERSITY OF MIAMI **3904**
CONTINUATION OF GRANT
02/26/1997 – 02/28/1998 FY97: $43,356 Total: $43,356
Prin. Invest.: J M PROSPERO, I CHIAPELLO
Tech. Officer: GSFC/JHERMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4025 UNIVERSITY OF MIAMI **3905**
GEODETIC MONITORING OF ACTIVE VOLCANOES WITH SAR I RADARSAT
04/25/1997 – 02/28/1998 FY97: $56,950 Total: $56,950
Prin. Invest.: T H DIXON
Tech. Officer: GSFC/R H THOMAS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 6154 UNIVERSITY OF MIAMI **3906**
GLOBAL SURVEY OF THE SPECTRAL ABSORPTION PROPERTIE ON MEASUREMENTS OF ARCHIEVED AEROSOL FILTERS
09/08/1997 – 09/14/1998 FY97: $66,906 Total: $66,906
Prin. Invest.: J PROSPERO
Tech. Officer: GSFC/J HERMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 6255 UNIVERSITY OF MIAMI **3907**
SATELLITE DATA ASSIMMILATION IN THE MIAMI OCEAN MO OCEANIC HEAT TRANSPORT CALCULATIONS AND PROCESS S
08/22/1997 – 09/30/1998 FY97: $102,999 Total: $102,999
Prin. Invest.: A MARIANO
Tech. Officer: GSFC/E J LINDSTROM
CASE Category: 39 – ENVIRONMENTAL SCI,OTHER

NAG 5 6326 UNIVERSITY OF MIAMI **3908**
"ALGORITHM DEVELOPMENT AND EVALUATION, AND SUPPORT FOR AVHRR/OCEANS PATHFINDERS
09/11/1997 – 06/30/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: R EVANS
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 273 UNIVERSITY OF MIAMI **3909**
"AN INVESTIGATION OF THE UNTILITY OF OCEAN COLOR IMAGERY FOR DELINEATION OF OCEANIC PROCESSES IN THE
11/01/1981 – 05/31/1997 FY97: $150,000 Total: $3,040,582
Prin. Invest.: O BROWN, O B BROWN, R H EVANS
Tech. Officer: HQ/M R LEWIS, HQ/W S WILSON
CASE Category: 33 – OCEANOGRAPHY

NAGW 3619 UNIVERSITY OF MIAMI **3910**
AIR–SEA GAS FLUXES: A REMOTE SENSING/MODEL BASED APPROACH
06/15/1993 – 05/31/1996 FY97: $0 Total: $365,484
Prin. Invest.: D OLSEN, R FINE
Tech. Officer: HQ/M E BALTUCK, HQ/R C HARRISS
CASE Category: 33 – OCEANOGRAPHY

NAGW 3765 UNIVERSITY OF MIAMI **3911**
PHYSIOLOGICAL ECOLOGY OF DMSP AND DMS PRODUCTION BY PHYTOPLANKTON
11/18/1993 – 12/31/1996 FY97: $0 Total: $195,701
Prin. Invest.: P A MATRAI
Tech. Officer: HQ/A C JANETOS, HQ/R T WATSON
CASE Category: 33 – OCEANOGRAPHY

NAGW 3775 UNIVERSITY OF MIAMI **3912**
AVHRRR PATHFINDER SST ALGORITHM AND PROCESSING DEV ELOPMENT AND VERIFICATION
10/12/1993 – 09/30/1996 FY97: $0 Total: $300,001
Prin. Invest.: R H EVANS
Tech. Officer: HQ/M E MAIDEN, HQ/D M BUTLER
CASE Category: 33 – OCEANOGRAPHY

NAGW 4747 UNIVERSITY OF MIAMI **3913**
ALGORITHM DEVELOPMENT & EVAL & SUPPORT OF PRODUCT GENERATION FOR AVHRR/OCEANS PATHFINDER
09/12/1995 – 06/30/1997 FY97: $0 Total: $285,956
Prin. Invest.: R H EVANS
Tech. Officer: HQ/M E MAIDEN
CASE Category: 33 – OCEANOGRAPHY

NAGW 4999 UNIVERSITY OF MIAMI **3914**
GEODETIC MONITORING OF ACTIVE VOLCANOES WITH SAR I NTERFEROMETRY FROM RADARSAT
03/20/1996 – 02/28/1998 FY97: $0 Total: $70,641
Prin. Invest.: T H DIXON
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAS 5 30694 UNIVERSITY OF MIAMI **3915**
MAINTENANCE & OPERATION OF ATS–3 COMMUNICATION SYS TEM (CONTRACT TRANSFERRED TO LEWIS RES. CNTR)
05/23/1989 – 10/31/1997 FY97: $0 Total: $496,434
Prin. Invest.: O BROWN
Tech. Officer: GSFC/R WALES
CASE Category: 49 – ENGINEERING, OTHER

NAS 5 31361 UNIVERSITY OF MIAMI **3916**
MODIS – INVESTIGATION
01/15/1992 – 12/14/2001 FY97: $1,009,000 Total: $3,799,000
Prin. Invest.: O B BROWN
Tech. Officer: GSFC/H OSEROFF
CASE Category: 33 – OCEANOGRAPHY

NAS 5 31362 UNIVERSITY OF MIAMI **3917**
EOS/MODIS INVESTIGATION ENTITLED: "PROCESSING/ CALIBRATION FOR OCEAN OBSERVATION WITH EOS/MODIS"
12/13/1991 – 12/14/2001 FY97: $1,359,000 Total: $5,396,000
Prin. Invest.: R EVANS
Tech. Officer: GSFC/H OSEROFF
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 31363 UNIVERSITY OF MIAMI **3918**
MODERATE RESOLUTION IMAGING SPECTROMETER INVESTIGATION – OCEAN
01/15/1992 – 12/14/2001 FY97: $772,000 Total: $3,054,000
Prin. Invest.: H GORDON
Tech. Officer: GSFC/H OSEROFF
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 31734 UNIVERSITY OF MIAMI **3919**
DEVELOPMENT FOR SEAWIFS
11/22/1991 – 11/22/1997 FY97: $0 Total: $369,000
Prin. Invest.: H GORDAN
Tech. Officer: GSFC/C MCLAIN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 31745 UNIVERSITY OF MIAMI **3920**
RESEARCH ALGORITHMS & DESIGN, DEVELOPMENT, & VERIFICATION OF S/W FOR DATA SYSTEMS FOR SEAWIFS
04/24/1992 – 04/23/1997 FY97: $0 Total: $805,000
Prin. Invest.: R EVANS
Tech. Officer: GSFC/G FELDMAN
CASE Category: 33 – OCEANOGRAPHY

NCC 2 843 UNIVERSITY OF MIAMI **3921**
FLIGHT TRAINING FOR THE HIGH TECHNOLOGY TRANSPORT COCKPIT
01/31/1994 – 03/31/1998 FY97: $144,887 Total: $575,688
Prin. Invest.: E L WIENER
Tech. Officer: ARC/M R ROSEKIND, ARC/E A PALMER
CASE Category: 69 – PSYCHOLOGY, OTHER

NGT 90268 UNIVERSITY OF MIAMI **3922**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
12/20/1994 – 08/14/1996 FY97: $0 Total: $48,000
Prin. Invest.: K Y FUNG
Tech. Officer: HQ/D K RUSSELL
CASE Category: 11 – ASTRONOMY

NGT 5 30011 UNIVERSITY OF MIAMI **3923**
MID–OCEAN MESOSCALE VARIABILITY AS DEDUCED FROM TO HIGH–RESOLUTION NUMERICAL MODELING
10/14/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: O BROWN
Tech. Officer: GSFC/G ASRAR
CASE Category: 33 – OCEANOGRAPHY

NGT 5 30027 UNIVERSITY OF MIAMI **3924**
MONITORING ABSOLUTE SEA LEVEL CHANGE AND COASTAL S
10/17/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: T DIXON
Tech. Officer: GSFC/G ASRAR
CASE Category: 33 – OCEANOGRAPHY

NGT 5 90048 UNIVERSITY OF MIAMI **3925**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH
02/04/1997 – 08/14/1998 FY97: $37,523 Total: $37,523
Prin. Invest.: K Y FUNG
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 49 – ENGINEERING, OTHER

NAG 1 1104 UNIVERSITY OF SOUTH FLORIDA **3926**
COMPARISON OF 2 MEGOHM HOLMIUM AND 10 MEGOHM CAR– BON OXYGEN 2 LIDAR FOR ATMOSPHERIC BACKSCATTER AND
02/13/1990 – 09/30/1998 FY97: $25,000 Total: $448,548
Prin. Invest.: D K KILLINGER, K CHAN
Tech. Officer: LARC/P BROCKMAN, LARC/G J KOCH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 1000 UNIVERSITY OF SOUTH FLORIDA **3927**
EFFECTS OF WEIGHTLESSNESS ON THE AVIAN VISUO-VESTI BULAR SYSTEM: IMMONOHISTOCHEMICAL ANALYSIS
08/27/1995 – 05/31/1997 FY97: $0 Total: $122,031
Prin. Invest.: T SHIMIZU
Tech. Officer: ARC/C M WINGET, ARC/G C JAHNS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 3446 UNIVERSITY OF SOUTH FLORIDA **3928**
BOTTOM-ASSESSMENT AND WATER-CONSTITUTENT ALFORITHM S FOR THE ETM IN THE COASTAL ZONE
10/10/1996 – 10/31/1997 FY97: $206,442 Total: $206,442
Prin. Invest.: K L CARTER
Tech. Officer: GSFC/D J WILLIAMS
CASE Category: 33 – OCEANOGRAPHY

NAG 5 6301 UNIVERSITY OF SOUTH FLORIDA **3929**
HYPERSPECTRAL CHARACTERIZATION FOR APPLICATION TO CARBON CYCLING IN COASTAL REGIONS
09/02/1997 – 08/14/1998 FY97: $143,869 Total: $143,869
Prin. Invest.: P COBLE
Tech. Officer: GSFC/J YODER
CASE Category: 33 – OCEANOGRAPHY

NAG 8 1381 UNIVERSITY OF SOUTH FLORIDA **3930**
RESEARCH "DEVELOPMENT OF AN INSULIN SECRETING IMMUNOPRIVILEGED CELL-CELL AGRGREGATE UTILIZING
06/26/1997 – 11/30/1997 FY97: $68,000 Total: $68,000
Prin. Invest.: D CAMERON
Tech. Officer: MSFC/C TALLEY, MSFC/S GONDA
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 9 648 UNIVERSITY OF SOUTH FLORIDA **3931**
EVALUATION OF OVARIAN TUMOR CELL GROWTH AND GENE EXPRESSION
10/28/1992 – 02/28/1998 FY97: $0 Total: $490,000
Prin. Invest.: J L BECKER
Tech. Officer: JSC/S R GONDA
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 9 959 UNIVERSITY OF SOUTH FLORIDA **3932**
DEVELOP INTERACTIVE ASTRONAUT TRAINING MATERIALS
09/23/1997 – 09/22/1998 FY97: $11,500 Total: $11,500
Prin. Invest.: L L ROBBINS
Tech. Officer: JSC/K P LULLA
CASE Category: 33 – OCEANOGRAPHY

NAGW 465 UNIVERSITY OF SOUTH FLORIDA **3933**
DEV.OF IN SITE TO COMPLEMENT OCEAN COLOR REMOTE SENSING
05/05/1983 – 03/30/1998 FY97: $0 Total: $1,977,184
Prin. Invest.: K L CARDER
Tech. Officer: HQ/M R LEWIS, HQ/W S WILSON
CASE Category: 33 – OCEANOGRAPHY

NAGW 3050 UNIVERSITY OF SOUTH FLORIDA **3934**
A PERMANENT MINORITY ENGINEERING PROGRAM FOR HILLS BOROUGH COUNTY
04/14/1992 – 10/31/1995 FY97: $0 Total: $198,261
Prin. Invest.: R E HERRING
Tech. Officer: HQ/B WHITE
CASE Category: 49 – ENGINEERING, OTHER

NAGW 3459 UNIVERSITY OF SOUTH FLORIDA **3935**
SIMULATION ANALYSIS OF DISSOLVED AND PARTICULATE C OMPONENTS
03/31/1993 – 09/30/1997 FY97: $0 Total: $800,000
Prin. Invest.: J L WALSH
Tech. Officer: HQ/R E MURPHY, HQ/D M BUTLER
CASE Category: 33 – OCEANOGRAPHY

NAGW 3483 UNIVERSITY OF SOUTH FLORIDA **3936**
EVALUATION OF REGIONAL AND TEMPORAL VARIATION OF P RIMARY PRODUCTIVITY IN CASE II OCEAN SHELF WATERS
05/06/1993 – 12/31/1996 FY97: $0 Total: $914,516
Prin. Invest.: F MULLER-KARGER
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 33 – OCEANOGRAPHY

NAGW 3618 UNIVERSITY OF SOUTH FLORIDA **3937**
INCORPORATION OF SEAWIFS DATA INTO COUPLED PHYSICA L/BIOLOGICAL MODELS OF THE ARABIAN SEA
06/09/1993 – 03/30/1998 FY97: $0 Total: $517,101
Prin. Invest.: M E LUTHER
Tech. Officer: HQ/R E MURPHY, HQ/D M BUTLER
CASE Category: 33 – OCEANOGRAPHY

NAGW 3950 UNIVERSITY OF SOUTH FLORIDA **3938**
INVESTIGATION OF THE RESPONSE OF THE ARABIAN SEA T O THE SOUTHWEST MONSOON USING AIRCRAFT AND SATELL
04/21/1994 – 04/30/1998 FY97: $0 Total: $299,927
Prin. Invest.: P G COBLE, P STEGMANN
Tech. Officer: HQ/A C JENETOS
CASE Category: 33 – OCEANOGRAPHY

NAG10 130 UNIVERSITY OF SOUTH FLORIDA **3939**
BIOLOGICAL CHANGES FOLLOWING RECONNECTIONS OF BMCD/USFWS IMPOUNDMENTS AT KSC
12/02/1993 – 12/31/1996 FY97: -$11 Total: $67,488
Prin. Invest.: K A FLANNING
Tech. Officer: KSC/W M KNOTT
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG10 204 UNIVERSITY OF SOUTH FLORIDA **3940**
EDUCATION GRANT ENTITLED "YES WE CARE"
01/07/1997 – 06/30/1998 FY97: $119,124 Total: $119,124
Prin. Invest.: R E HENNING
Tech. Officer: KSC/J A DIGGS
CASE Category: 41 – AERONAUTICAL ENGNR

NAS 3 26412 UNIVERSITY OF SOUTH FLORIDA **3941**
ACTS PROPAGATION EXPERIMENTS
05/03/1993 – 03/31/1998 FY97: $78,112 Total: $284,767
Prin. Invest.: R E HENNING
Tech. Officer: LERC/G J GUNDERMAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAS 5 31716 UNIVERSITY OF SOUTH FLORIDA **3942**
EARTH OBSERVING SYSTEM MODIS/HIRIS TEAM MEMBER INVESTIGATION
01/15/1992 – 12/14/2001 FY97: $650,000 Total: $2,894,168
Prin. Invest.: K R CARDER
Tech. Officer: GSFC/H OSEROFF
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 97128 UNIVERSITY OF SOUTH FLORIDA **3943**
CAL/VAL OF CARBON FLUXES FOR SIMBIOS
08/18/1997 – 08/17/1998 FY97: $296,999 Total: $296,999
Prin. Invest.: F E MULLER-KARGER
Tech. Officer: GSFC/C R MCCLAIN
CASE Category: 33 – OCEANOGRAPHY

NAS 5 97137 UNIVERSITY OF SOUTH FLORIDA **3944**
STRAY LIGHT & ATOMOSPHERIC ADJACENCY EFFECTS FOR LARGE FOV OCEAN VIEWING SPACE SENSORS
09/23/1997 – 09/23/1998 FY97: $188,611 Total: $188,611
Prin. Invest.: K CARTER
Tech. Officer: GSFC/C MCCLAIN
CASE Category: 33 – OCEANOGRAPHY

NCC 8 31 UNIVERSITY OF SOUTH FLORIDA **3945**
TECHNOLOGY REINVESTMENT PROGRAM
04/11/1994 – 09/30/1997 FY97: $0 Total: $955,034
Prin. Invest.: S N BUSANSKY, D C KEEZER
Tech. Officer: MSFC/S LITTLE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 30270 UNIVERSITY OF SOUTH FLORIDA **3946**
GLOBAL CHANGE FELLOWSHIP PROGRAM
10/20/1994 – 08/31/1997 FY97: $0 Total: $22,000
Prin. Invest.: M LUTHER, T BUSALACCHI
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 33 – OCEANOGRAPHY

NGT 30306 UNIVERSITY OF SOUTH FLORIDA **3947**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/10/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: K L CARDER
Tech. Officer: HQ/M BALTUCK, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30316 UNIVERSITY OF SOUTH FLORIDA **3948**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/10/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: F MULLER-KARGER
Tech. Officer: HQ/M BALTUCK, HQ/G ASRAR
CASE Category: 33 – OCEANOGRAPHY

NGT 70375 UNIVERSITY OF SOUTH FLORIDA **3949**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
08/22/1994 – 06/30/1997 FY97: $22,000 Total: $132,000
Prin. Invest.: D V LIM
Tech. Officer: HQ/D K RUSSELL
CASE Category: 59 – LIFE SCIENCE, OTHER

NGT 90060 UNIVERSITY OF SOUTH FLORIDA **3950**
PILOT BRIDGE PROGRAM FOR MINORITY ENGINEERING STUD ENTS
04/21/1992 – 07/07/1997 FY97: $0 Total: $110,893
Prin. Invest.: J A O'SHIELDS
Tech. Officer: HQ/B L WHITE
CASE Category: 49 – ENGINEERING, OTHER

NGT 90103 UNIVERSITY OF SOUTH FLORIDA **3951**
GRSP/UMF
09/16/1992 – 08/14/1996 FY97: $0 Total: $48,000
Prin. Invest.: J O'SHIELDS
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 2 8014 UNIVERSITY OF WEST FLORIDA **3952**
IPA FOR DR. KEN FORD
12/23/1996 – 05/07/1997 FY97: $12,023 Total: $12,023
Prin. Invest.: K FORD
Tech. Officer: ARC/H MCDONALD
CASE Category: 22 – COMPUTER SCIENCE

NCC 9 37 UNIVERSITY OF WEST FLORIDA **3953**
MECHANISMS OF SENSORIMOTOR ADAPTATION TO CENTRIFUG ATION
06/15/1995 – 09/30/1997 FY97: $26,304 Total: $74,217
Prin. Invest.: F GUEDRY
Tech. Officer: JSC/W PALOSKI
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG10 165 VALENCIA COMMUNITY COLLEGE **3954**
HIGH TECH TRAINING OF INDIVIDUALS WITH DISABILITY
06/06/1995 – 05/30/1998 FY97: $25,000 Total: $50,000
Prin. Invest.: K WOODBERRY
Tech. Officer: KSC/G BUCKINGHAM
CASE Category: 22 – COMPUTER SCIENCE

GEORGIA

NAG10 233 ALBANY STATE UNIVERSITY **3955**
PROJECT HIGH SCHOOL/HIGH TECH
09/30/1997 – 09/30/1998 FY97: $105,750 Total: $105,750
Prin. Invest.: G L BLACK, III
Tech. Officer: KSC/E JOHNSON
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 1 1714 CLARK ATLANTA UNIVERSITY **3956**
BLENDED-WING-BODY STRUCTURAL TECHNOLOGY STUDY
04/19/1995 – 12/18/1997 FY97: $15,000 Total: $59,937
Prin. Invest.: A BADIR
Tech. Officer: LARC/J H STARNES
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1727 CLARK ATLANTA UNIVERSITY **3957**
CONSTITUTIVE MODELING AND TESTING OF POLYMER MATRIX COM-POSITES INCORPORATING PHYSICAL AGING AT
05/26/1995 – 05/31/1998 FY97: $73,312 Total: $196,614
Prin. Invest.: D R VEAZIE
Tech. Officer: LARC/T S GATES
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1760 CLARK ATLANTA UNIVERSITY **3958**
AN ADAPTIVE FLOW SOLVER FOR AIRBORNE VEHICLES UNDE RGOING TIME-DEPENDENT MOTIONS/DEFORMATIONS
09/22/1995 – 09/30/1997 FY97: $0 Total: $325,143
Prin. Invest.: J SINGH, S TAYLOR
Tech. Officer: LARC/E M LEE-RAUSCH
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1919 CLARK ATLANTA UNIVERSITY **3959**
COMPUTATIONAL MATERIALS RESEARCH COMPUTATIONAL MATERIALS RESEARCH
04/30/1997 – 12/01/1997 FY97: $13,591 Total: $13,591
Prin. Invest.: D R VEAZIE
Tech. Officer: LARC/T S GATES, LARC/I S RAJU
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1411 CLARK ATLANTA UNIVERSITY **3960**
THE CONSTRUCTION OF FINITE DIFFERENCE SCHEMES HAVI NG SPECIAL PROPERTIES
12/31/1992 – 12/31/1996 FY97: $57,000 Total: $354,500
Prin. Invest.: R E MICKENS
Tech. Officer: LERC/J W GOODRICH
CASE Category: 21 – MATHEMATICS

NAG 3 1773 CLARK ATLANTA UNIVERSITY **3961**
TURBULENT PREMIXED MEHTANE–AIR COMBUSTION: EMISSI ONS, CHARACTERISTICS, AND MODELING
07/28/1995 – 07/27/1998 FY97: $75,000 Total: $150,000
Prin. Invest.: Y D YEBOAH
Tech. Officer: LERC/H D ROSS, LERC/R F LAWRENCE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1973 CLARK ATLANTA UNIVERSITY **3962**
GROWTH AND CHARACTERIZATION OF III–V SEMICONDUCTOR S FOR DEVICE APPLICATIONS
09/26/1996 – 09/24/1999 FY97: $0 Total: $99,912
Prin. Invest.: M D WILLIAMS
Tech. Officer: LERC/S A ALTERNOVITZ
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1996 CLARK ATLANTA UNIVERSITY **3963**
RESEARCH FACILITY TO STUDY FLOWS THROUGH ANNULAR D IFFUSERS
11/19/1996 – 11/20/1997 FY97: $110,138 Total: $110,138
Prin. Invest.: R R TACINA
Tech. Officer: LERC/R R TACINA
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 2070 CLARK ATLANTA UNIVERSITY **3964**
THE CONSTRUCTION OF FINITE DIFFERENCE SCHEMES HAVI NG SPECIAL PROPERTIES'
08/20/1997 – 07/13/1998 FY97: $54,796 Total: $54,796
Prin. Invest.: R MICKENS
Tech. Officer: LERC/E MILNER
CASE Category: 21 – MATHEMATICS

NAG 4 11 CLARK ATLANTA UNIVERSITY **3965**
CHEMICALLY DERIVED DENSE ALUMINA–ZIRCONIA COMPOSITES FOR IMPROVED MECHANICAL AND WEAR EROSION PROPER
12/15/1994 – 12/31/1997 FY97: $75,000 Total: $225,000
Prin. Invest.: L T MOETI
Tech. Officer: DFRC/K K GUPTA, DFRC/E J COX
CASE Category: 43 – CHEMICAL ENGR

NAG 5 4763 CLARK ATLANTA UNIVERSITY **3966**
CROSS SECTIONS FOR ELECTRON IMPACT EXCITATION OF I PLANETARY ATMOSPHERES OBSERVATION
06/11/1997 – 03/31/1998 FY97: $60,000 Total: $60,000
Prin. Invest.: P J TAYAL
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 6169 CLARK ATLANTA UNIVERSITY **3967**
THE ACCURACY OF EARTH OBSERVING SYSTEM MEASUREMENT DYNAMICS
08/01/1997 – 07/31/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: D STEPHENSON–HAWK, NONE
Tech. Officer: GSFC/R ROOD
CASE Category: 13 – PHYSICS

NAG 8 1136 CLARK ATLANTA UNIVERSITY **3968**
LOW DENSITY LOW CONDUCTIVITY PAN ABLATIVE OPTIMIZATION AND NOZZLE FABRICATION
03/14/1995 – 09/30/1997 FY97: $0 Total: $498,315
Prin. Invest.: E A MINTZ, A DIDIR, M LIN
Tech. Officer: MSFC/R J HARWELL
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 8 1140 CLARK ATLANTA UNIVERSITY **3969**
STUDY OF DROPLET CHARACTERISTICS AT VARIOUS PRESSURE ENVIRONMENTS
05/25/1995 – 02/02/1998 FY97: $0 Total: $196,281
Prin. Invest.: T BAI
Tech. Officer: MSFC/A CHOW
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAG 8 1345 CLARK ATLANTA UNIVERSITY **3970**
RESEARCH ENTITLED: "EXPERIMENTAL AND NUMERICAL STUDIES OF COMBUSTION INSTABILITIES"
04/16/1997 – 04/30/1999 FY97: $99,931 Total: $99,931
Prin. Invest.: T BAI
Tech. Officer: MSFC/A CHOW
CASE Category: 49 – ENGINEERING, OTHER

NAGW 2939 CLARK ATLANTA UNIVERSITY **3971**
HIGH–PERFORMANCE POLYMERS AND CERAMICS
03/13/1992 – 12/31/1996 FY97: $558,000 Total: $8,165,210
Prin. Invest.: E A MINTZ
Tech. Officer: HQ/M S MARGOLIS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4447 CLARK ATLANTA UNIVERSITY **3972**
CROSS SECTIONS FOR ELECTRON IMPACT EXCITATION OF I ONS RELEVANT TO PLANETARY ATMOSPHERES
05/10/1995 – 09/30/1997 FY97: $0 Total: $120,000
Prin. Invest.: S TAYAL
Tech. Officer: HQ/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG10 170 CLARK ATLANTA UNIVERSITY **3973**
BIOCONVERSION OF WASTE TO NUTRITIONAL PROTEIN
06/09/1995 – 06/11/1998 FY97: $98,349 Total: $299,528
Prin. Invest.: S RODRIGUEZ–EATON
Tech. Officer: KSC/K POIMBOEUF, KSC/J SAGER
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAS 3 27785 CLARK ATLANTA UNIVERSITY **3974**
NRA–95–1–LERC–MODELING AND TESTING OF HYBID TITANI UM COMPOSITE LAMINATES AT NORMAL & ELEVATED TEMPE
10/20/1995 – 09/30/1997 FY97: $60,000 Total: $119,706
Prin. Invest.: A ABRATAN
Tech. Officer: LERC/G D ROBERTS
CASE Category: 47 – METAL & MATERIALS ENGR

NAS 3 27881 CLARK ATLANTA UNIVERSITY **3975**
STUDY OF LONG TERM DURABILITY OF POLYMER MATRIX COMPOSITES FOR HIGH TEMPERATURE APPLICATIONS
10/10/1995 – 10/10/1997 FY97: $59,999 Total: $109,999
Prin. Invest.: A BADIR, K TALREJA
Tech. Officer: LERC/K J BOWLES
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 3 286 CLARK ATLANTA UNIVERSITY **3976**
ALKALI–LAYERED COMPOUNDS, INTERFACES FOR ENERGY CO NVERSION & ENERGY STORAGE
01/11/1993 – 01/29/1997 FY97: –$49,198 Total: $454,447
Prin. Invest.: C R HANDY, H L NEAL, C PAPAGEORGOPOULOS
Tech. Officer: LERC/A F HEPP
CASE Category: 13 – PHYSICS

NCC 3 454 CLARK ATLANTA UNIVERSITY **3977**
THE HENRY CECIL RANSON MCBAY CHAIR IN SPACE SCIENC E
02/26/1996 – 02/25/1999 FY97: $0 Total: $750,000
Prin. Invest.: K B BOTA
Tech. Officer: LERC/J M EARLS, LERC/S DUTTA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 3 505 CLARK ATLANTA UNIVERSITY **3978**
X–RAY DIFFRACTION STUDIES OF STRUCTURAL & THERMOCHEMISTRY OF ALKALINE EARTH OXIDE COATED THERMINO
09/26/1996 – 09/25/1999 FY97: $0 Total: $46,323
Prin. Invest.: D KARIKARI
Tech. Officer: LERC/C D CUBBAGE, LERC/E G WINTUCKY
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 552 CLARK ATLANTA UNIVERSITY **3979**
HIGH PERFORMANCE POLYMERS AND COMPOSITES CENTER
04/29/1997 – 02/28/2002 FY97: $850,000 Total: $850,000
Prin. Invest.: A A MINTZ
Tech. Officer: LERC/S DUTTA, LERC/M A MEADOR
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 2 828 EMORY UNIVERSITY **3980**
HETERGENEOUS DITRIBUTED COMPUTING FOR COMPUTATIONA L AEROSCIENCES
03/26/1993 – 12/31/1997 FY97: $42,273 Total: $191,769
Prin. Invest.: V S SUNDERAM
Tech. Officer: ARC/A C WOO, ARC/E BARSZCZ
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1213 GEORGIA INSTITUTE OF TECHNOLOGY **3981**
AIRBORNE MEASUREMENTS OF NO,NO2 AND NOY AS RELATED TO NASA'S PACIFIC EXPLORATORY MISSION
02/19/1991 – 06/30/1997 FY97: $1 Total: $1,214,559
Prin. Invest.: J D BRADSHAW, S T SANDHOLM
Tech. Officer: LARC/E V BROWELL, LARC/A F CARTER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1438 GEORGIA INSTITUTE OF TECHNOLOGY **3982**
DIAGNOSTIC MODELLING STUDIES OF THE HX OY–NX OY–03 PHOTOCHEMICAL SYSTEM AND ITS COUPLING TO SULFUR
05/18/1992 – 09/17/1996 FY97: –$51 Total: $515,076
Prin. Invest.: D D DAVIS, W L CHAMEIDES
Tech. Officer: LARC/J FISHMAN, LARC/J M HOELL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1517 GEORGIA INSTITUTE OF TECHNOLOGY **3983**
CONTINUED DEVELOPMENT AND APPLICATION OF CIRCU– LATION CONTROL TECHNOLOGY FOR ADVANCED SUBSONIC
06/14/1993 – 05/31/1997 FY97: $0 Total: $279,679
Prin. Invest.: R J ENGLAR
Tech. Officer: LARC/E G WAGGONER, LARC/Z T APPLIN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1564 GEORGIA INSTITUTE OF TECHNOLOGY **3984**
NEW APPROACHES TO HSCT MULTIDISPLINARY DESIGN AND OPTIMIZATION
12/20/1993 – 12/31/1997 FY97: $150,001 Total: $554,936
Prin. Invest.: D P SCHRAGE, R E FULTON, J I CRAIG
Tech. Officer: LARC/R P WESTON, LARC/J SOBIESKI
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1582 GEORGIA INSTITUTE OF TECHNOLOGY **3985**
ELEVATED TEMPERATURE CRACK GROWTH BEHAVIOR IN AL ALLOY 2519 AND ITS VARIANTS
01/28/1994 – 11/27/1997 FY97: $69,995 Total: $251,995
Prin. Invest.: A SAXENA
Tech. Officer: LARC/R S PIASCIK, LARC/J C NEWMAN JR.
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 1624 GEORGIA INSTITUTE OF TECHNOLOGY **3986**
RESEARCH INTO GENETIC ALGORITHMS FOR OPTIMIZATION AND THE DESIGN OF THE GENETIC PROCESSOR
04/21/1994 – 07/01/1997 FY97: $0 Total: $46,001
Prin. Invest.: V K MADISETTI
Tech. Officer: LARC/J H TUCKER, LARC/S K STOVER
CASE Category: 45 – ELECTRICAL ENGR

NAG 1 1631 GEORGIA INSTITUTE OF TECHNOLOGY **3987**
MODELING MACRO – AND MICRO–SCALE TURBULENT MIXING AND CHEMISTRY IN ENGINE EXHAUST PLUMES
06/30/1994 – 03/31/1998 FY97: $96,900 Total: $378,658
Prin. Invest.: S MENON
Tech. Officer: LARC/W L GROSE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1662 GEORGIA INSTITUTE OF TECHNOLOGY **3988**
ECONOMIC RISK ANALYSIS OF LARGE TRANSPORT CONFIGURATIONS AN IMPLEMENTATION OF GEORGIA TECH'S
12/07/1994 – 12/06/1997 FY97: $67,304 Total: $221,054
Prin. Invest.: D N MAVRIS
Tech. Officer: LARC/G L GILES
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1734 GEORGIA INSTITUTE OF TECHNOLOGY **3989**
MEASUREMENTS TECHNOLOGY DEVELOPMENT TO VALIDATE DUCT LINER PROPAGATION MODELS
06/27/1995 – 06/30/1998 FY97: $130,000 Total: $279,998
Prin. Invest.: K K AHUJA
Tech. Officer: LARC/M B TRACY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1766 GEORGIA INSTITUTE OF TECHNOLOGY **3990**
MEASUREMENTS OF OH, H2 SO4, MSA, DMSO, AND DMSO2 ON THE NASA P-3B AIRCRAFT
09/29/1995 – 10/31/1998 FY97: $91,000 Total: $587,000
Prin. Invest.: D L EISELE, D L MAULDIN
Tech. Officer: LARC/J M HOELL, JR., LARC/R J BENDURA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1767 GEORGIA INSTITUTE OF TECHNOLOGY **3991**
NEW NASA RESEARCH GRANT
09/28/1995 – 09/30/1998 FY97: $76,842 Total: $651,694
Prin. Invest.: D D BRADSHAW, D T SANDHOLM
Tech. Officer: LARC/J M HOELL, JR., LARC/R J BENDURA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1768 GEORGIA INSTITUTE OF TECHNOLOGY **3992**
NEW NASA RESEARCH GRANT
09/29/1995 – 09/30/1997 FY97: $1 Total: $240,400
Prin. Invest.: M O RODGERS
Tech. Officer: LARC/J M HOELL, JR., LARC/R J BENDURA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1769 GEORGIA INSTITUTE OF TECHNOLOGY **3993**
TROPOSPHERIC DIAGNOSTIC MODELING STUDIES OF PEM- TROPICS FIELD DATA: INVESTIGATIONOF THE HOX/NOX/
09/29/1995 – 03/31/1998 FY97: $1 Total: $357,444
Prin. Invest.: D D DAVIS, D CHAMEIDES
Tech. Officer: LARC/J M HOELL, JR., LARC/R J BENDURA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1778 GEORGIA INSTITUTE OF TECHNOLOGY **3994**
COMPUTATIONAL INTERFACIAL FRACTURE MECHANICS AND MATERIAL MECHANICS OF INTERFACES
10/30/1995 – 10/31/1996 FY97: $1 Total: $60,001
Prin. Invest.: S N ATLURI
Tech. Officer: LARC/I S RAJU
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1786 GEORGIA INSTITUTE OF TECHNOLOGY **3995**
SYSTEM DEFINITION AND MODULE DEVELOPMENT FOR A COMPREHENSIVE AIRCRAFT SIZING AND SYNTHESIS TOOL
01/19/1996 – 01/18/1998 FY97: $63,250 Total: $134,865
Prin. Invest.: D N MAVRIS
Tech. Officer: LARC/G L GILES
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1793 GEORGIA INSTITUTE OF TECHNOLOGY **3996**
ADVANCED DESIGN METHODOLOGY FOR ROBUST AIRCRAFT SIZING AND SYNTHESIS
01/22/1996 – 01/21/1998 FY97: $62,494 Total: $149,109
Prin. Invest.: D N MAVRIS
Tech. Officer: LARC/G L GILES
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1810 GEORGIA INSTITUTE OF TECHNOLOGY **3997**
NEW NASA GRANT AWARD
02/22/1996 – 02/21/1998 FY97: $50,000 Total: $82,451
Prin. Invest.: J QU
Tech. Officer: LARC/W H PROSSER
CASE Category: 46 – MECHANICAL ENGR

NAG 1 1822 GEORGIA INSTITUTE OF TECHNOLOGY **3998**
A MODEL STUDY OF PEM-TROPICS OBSERVATIONS
03/19/1996 – 03/13/1998 FY97: $149,603 Total: $264,505
Prin. Invest.: S LIU
Tech. Officer: LARC/J M HOELL, JR., LARC/R J BENDURA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1890 GEORGIA INSTITUTE OF TECHNOLOGY **3999**
HIGH TEMPERATURE COMPOSITE/METAL LAMINATES
01/17/1997 – 01/16/1998 FY97: $45,000 Total: $45,000
Prin. Invest.: W S JOHNSON
Tech. Officer: LARC/T L ST. CLAIR, LARC/S E LOWTHER
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 1904 GEORGIA INSTITUTE OF TECHNOLOGY **4000**
DOWNSIZING GEORGIA TECH'S AIRBORNE FLUORESCENCE SPECTROMETER (AFS) FOR THE MEASUREMENT OF NITROGEN
02/27/1997 – 02/28/1998 FY97: $562,366 Total: $562,366
Prin. Invest.: J P BRADSHAW, S SANDHOLM
Tech. Officer: LARC/J M HOELL, LARC/R J BENDURA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1951 GEORGIA INSTITUTE OF TECHNOLOGY **4001**
RAPID PROTOTYPING OF COMPOSITE STRUCTURES
07/14/1997 – 09/30/1998 FY97: $23,334 Total: $23,334
Prin. Invest.: J S COLTON
Tech. Officer: LARC/E S WEISER, LARC/H L BELVIN
CASE Category: 46 – MECHANICAL ENGR

NAG 2 954 GEORGIA INSTITUTE OF TECHNOLOGY **4002**
REACTIVE NITROGEN MEASUREMENT CAPABILITY ENHANCEME NT
12/23/1994 – 11/30/1996 FY97: $16,526 Total: $221,807
Prin. Invest.: J D BRADSHAW
Tech. Officer: ARC/E P CONDON, ARC/A P MARGOZZI
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 1047 GEORGIA INSTITUTE OF TECHNOLOGY **4003**
TECHNOLOGY & RISK ASSESSMENT USING A ROBUST DESIGN SIMULATION METHODOLOGY
05/17/1996 – 10/31/1997 FY97: $65,000 Total: $140,865
Prin. Invest.: D MAVRIS
Tech. Officer: ARC/T L GALLOWAY, ARC/P A GELHAUSEN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 1103 GEORGIA INSTITUTE OF TECHNOLOGY **4004**
MODELING & DATA ANALYSIS OF SONEX OBSERVATIONS
01/13/1997 – 01/31/1998 FY97: $107,344 Total: $107,344
Prin. Invest.: S C LIU
Tech. Officer: ARC/E P CONDON, ARC/S S WEGENER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 1146 GEORGIA INSTITUTE OF TECHNOLOGY **4005**
PILOT NON-CONFORMANCE TO ALERTING SYSTEM COMMANDS
07/22/1997 – 09/30/1997 FY97: $21,656 Total: $21,656
Prin. Invest.: A R PRITCHETT
Tech. Officer: ARC/R W REMINGTON, ARC/K CORKER
CASE Category: 69 – PSYCHOLOGY, OTHER

NAG 3 1454 GEORGIA INSTITUTE OF TECHNOLOGY **4006**
CONTROL OF OSCILLATORY THERMOCAPILLARY CONVECTION IN MICROGRAVITY
02/17/1993 – 02/15/1997 FY97: $0 Total: $403,100
Prin. Invest.: G P NEITZEL, NONE
Tech. Officer: LERC/R L THOMPSON
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1455 GEORGIA INSTITUTE OF TECHNOLOGY **4007**
THE BEHAVIOR OF UNSTEADY THERMOCAPILLARY FLOWS
02/08/1993 – 05/23/1997 FY97: $0 Total: $209,999
Prin. Invest.: M K SMITH, M K SMITH
Tech. Officer: LERC/J P SKARDA
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1559 GEORGIA INSTITUTE OF TECHNOLOGY **4008**
DIELECTRIC SPECTOSCOPY AS A MATERIALS PROBE
02/02/1994 – 02/02/1998 FY97: $0 Total: $225,000
Prin. Invest.: R A GERHARDT
Tech. Officer: LERC/A VARY
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1610 GEORGIA INSTITUTE OF TECHNOLOGY **4009**
PREMIXED TURBULENT FLAME PROPAGATIN IN MICROGRAVIT Y
05/25/1994 – 05/24/1998 FY97: $101,948 Total: $448,952
Prin. Invest.: S MENON
Tech. Officer: LERC/H D ROSS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1651 GEORGIA INSTITUTE OF TECHNOLOGY **4010**
EVOLUTION OF MICROSTRUCTURAL DISTANCE DISTRIBUTIONS IN NORMA GRAVITY AND MICROGRAVITY
07/13/1994 – 07/12/1996 FY97: –$488 Total: $99,454
Prin. Invest.: A M GOKHALE
Tech. Officer: LERC/M D BETHEA
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1665 GEORGIA INSTITUTE OF TECHNOLOGY **4011**
THERMOCHEMISTRY OF SCANDIUM ADSORBATE GENERATION
09/12/1994 – 03/11/1998 FY97: $0 Total: $33,600
Prin. Invest.: D N HILL
Tech. Officer: LERC/E G WINTUCKY
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1682 GEORGIA INSTITUTE OF TECHNOLOGY **4012**
DEVELOPMENT OF QUIET PRESSURE REDUCING DEVICES AND NOISE SOURCE LOCATION TECHNIQUES
11/17/1994 – 12/02/1997 FY97: $100,000 Total: $265,285
Prin. Invest.: K K ATIUJA
Tech. Officer: LERC/E A KREJSA
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1754 GEORGIA INSTITUTE OF TECHNOLOGY **4013**
THREE–DIMENISIONAL AEROELASTIC ANALYSIS OF MISTUNE D BINDED–DISK ASSEMBLIES
05/31/1995 – 05/30/1997 FY97: $0 Total: $73,103
Prin. Invest.: O G MCGEE
Tech. Officer: LERC/J LUCERO
CASE Category: 44 – CIVIL ENGR

NAG 3 1894 GEORGIA INSTITUTE OF TECHNOLOGY **4014**
NON–COALSECENCE EFFECTS IN MICROGRAVITY
06/17/1996 – 06/16/2000 FY97: $77,015 Total: $197,015
Prin. Invest.: G P NEITZEL
Tech. Officer: LERC/R S KARDA
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1949 GEORGIA INSTITUTE OF TECHNOLOGY **4015**
THE DEVELOPMENT OF NOVEL, HIGH–FLUX, HEAT TRANSFER CELLS FOR THERMAL CONTROL IN MICROGRAVITY
09/17/1996 – 09/12/2000 FY97: $0 Total: $120,000
Prin. Invest.: M K SMITH, A GLEZER
Tech. Officer: LERC/B SINGH
CASE Category: 46 – MECHANICAL ENGR

NAG 3 2006 GEORGIA INSTITUTE OF TECHNOLOGY **4016**
TERRESTRAIL EXPERIMENTS ON G–GITTER EFFECTS ON TRA NSPORT & PATTERN FORMATION
01/24/1997 – 01/16/2001 FY97: $52,327 Total: $52,327
Prin. Invest.: M F SCHATZ, H L SWINNEY
Tech. Officer: LERC/W DUVAL, LERC/T K GLASGOW
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 5 1490 GEORGIA INSTITUTE OF TECHNOLOGY **4017**
INVESTIGATION OF PASSIVE ATMOSPHERIC SOUNDING USIN G MILLIMETER AND SUBMILLIMETER–WAVELENGTH CHANNEL
12/10/1990 – 12/31/1997 FY97: $80,000 Total: $509,946
Prin. Invest.: A J GASIEWSKI
Tech. Officer: GSFC/R F ADLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2187 GEORGIA INSTITUTE OF TECHNOLOGY **4018**
NEXT GENERATION METHODS FOR IMAGE DATA COMPRESSION
02/04/1993 – 02/14/1997 FY97: $0 Total: $224,151
Prin. Invest.: M J SMITH
Tech. Officer: GSFC/P S YEH
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 2226 GEORGIA INSTITUTE OF TECHNOLOGY **4019**
ADVANCED USER INTERFACES AND INTELLIGENT SYSTEMS F OR DESIGN, OPERATION, AND MAINTENANCE OF
03/23/1993 – 03/31/1997 FY97: $0 Total: $245,000
Prin. Invest.: C M MITCHELL
Tech. Officer: GSFC/W J POTTER, GSFC/A T JOHNS
CASE Category: 22 – COMPUTERSCIENCE

NAG 5 2227 GEORGIA INSTITUTE OF TECHNOLOGY **4020**
INTELLIGENT COMMAND AND CONTROL SYSTEMS FOR SATELL ITE GROUND OPERATIONS
03/12/1993 – 03/31/1998 FY97: $0 Total: $267,245
Prin. Invest.: C M MITCHELL
Tech. Officer: GSFC/A W STOFFEL
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2789 GEORGIA INSTITUTE OF TECHNOLOGY **4021**
TOWARDS A THEORY OF TROPICAL/MIDLATITUDE MASS EXCH ANGE FROM THE EARTH'S SURFACE THROUGH THE
11/14/1994 – 11/30/1997 FY97: $74,711 Total: $211,657
Prin. Invest.: D E HARTLEY
Tech. Officer: GSFC/C H JACKMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2919 GEORGIA INSTITUTE OF TECHNOLOGY **4022**
POTENTIAL VORTICITY-BASED DIAGNOSIS OF SEASONAL AND INTRA-SEASONAL VARIABILITY IN AN ASSIMILATED...
03/22/1995 – 03/31/1998 FY97: $52,400 Total: $165,104
Prin. Invest.: R X BLACK
Tech. Officer: GSFC/S SCHUBERT
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3149 GEORGIA INSTITUTE OF TECHNOLOGY **4023**
THE PREDICTION OF THE DYNAMICAL IMPACT OF CHANGES IN STRATOSPHERIC OZONE: TRANSPORT MODEL STUDIES
12/08/1995 – 12/14/1997 FY97: $63,000 Total: $126,000
Prin. Invest.: D M CUNNOLD
Tech. Officer: GSFC/A R DOUGLAS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3356 GEORGIA INSTITUTE OF TECHNOLOGY **4024**
AN INTELLIGENT CASE-BASED HELP DESK: WEB-BASED SU PPORT FOR EOSDIS CUSTOMERS
08/12/1996 – 08/14/1997 FY97: $0 Total: $131,175
Prin. Invest.: C MITCHELL
Tech. Officer: GSFC/W TRUSZKOWSKI, GSFC/K MOE
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 3634 GEORGIA INSTITUTE OF TECHNOLOGY **4025**
LABORATORY INVESTIGATIONS OF STRATOSPHERIC AND UPP CHEMISRTY
02/25/1997 – 01/31/1998 FY97: $153,315 Total: $153,315
Prin. Invest.: P H WINE
Tech. Officer: GSFC/M J KURYLO
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3855 GEORGIA INSTITUTE OF TECHNOLOGY **4026**
THE YANGYZE DELTA OF CHINA AS AN EVOLVING METRO-AG (148-65-80-04)
02/03/1997 – 11/30/1997 FY97: $500,000 Total: $500,000
Prin. Invest.: W L CHAMEIDES
Tech. Officer: GSFC/A J TUYAHOV
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4190 GEORGIA INSTITUTE OF TECHNOLOGY **4027**
LABORATORY EVALUATION AND APPLICATION OF MICROWAVE UNDER SIMULATED CONDITIONS FOR PLANETARY ATMOSPHE
06/10/1997 – 12/31/1997 FY97: $72,000 Total: $72,000
Prin. Invest.: D G STEFFES
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 6284 GEORGIA INSTITUTE OF TECHNOLOGY **4028**
DEVELOPMENT OF AIRBORNE EDDY-CORRELATION FLUX MEAS OXIDES OF NITROGEN
09/26/1997 – 07/31/1998 FY97: $149,805 Total: $149,805
Prin. Invest.: D SANDHOLM
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 1137 GEORGIA INSTITUTE OF TECHNOLOGY **4029**
POWER AND THERMAL MANAGEMENT SYSTEMS FOR THE LUNAR BASED EXPERIMENTS
05/01/1995 – 07/31/1996 FY97: $0 Total: $50,000
Prin. Invest.: J C HANDLEY
Tech. Officer: MSFC/M NEIN
CASE Category: 46 – MECHANICAL ENGR

NAG 8 1138 GEORGIA INSTITUTE OF TECHNOLOGY **4030**
ADAPTIVE FULL APERTURE WAVEFRONT SENSOR STUDY
03/31/1995 – 08/31/1997 FY97: $0 Total: $99,965
Prin. Invest.: W G ROBINSON
Tech. Officer: MSFC/K K MONTGOMERY
CASE Category: 13 – PHYSICS

NAG 8 1155 GEORGIA INSTITUTE OF TECHNOLOGY **4031**
PROVIDEING ACCESS TO GRAPHICAL USER INTERFACES: THE MERCATOR PROJECT
06/13/1995 – 06/12/1996 FY97: $0 Total: $50,000
Prin. Invest.: J D FOLEY, NONE
Tech. Officer: MSFC/C E MOORE
CASE Category: 22 – COMPUTER SCIENCE

NAG 8 1202 GEORGIA INSTITUTE OF TECHNOLOGY **4032**
HYPERSONIC AIRBREATH PROPULSION TESTBED
09/21/1995 – 06/07/1996 FY97: $0 Total: $15,000
Prin. Invest.: J R OLDS
Tech. Officer: GSFC/W P PANNELL
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 8 1245 GEORGIA INSTITUTE OF TECHNOLOGY **4033**
EFFECT OF GRAVITY ON THE EVOLUTION OF SPATIAL ARRANGEMENT OF FEATURES IN MICROSTRUCTURES
05/10/1996 – 05/09/1998 FY97: $36,250 Total: $138,750
Prin. Invest.: A M GOKHALE
Tech. Officer: MSFC/C R TALLEY, MSFC/R W ALLEN
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 8 1302 GEORGIA INSTITUTE OF TECHNOLOGY **4034**
RESEARCH "LAUNCH VEHICLE SYSTEMS ANALYSIS"
07/11/1996 – 10/31/1998 FY97: $0 Total: $49,352
Prin. Invest.: D R OLDS
Tech. Officer: MSFC/U HUETER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 9 726 GEORGIA INSTITUTE OF TECHNOLOGY **4035**
OPTIMIZATION FUZZY ADAPTIVE CONTROL & INTELLIGENT AUTONOMOUS SPACE
05/11/1994 – 06/30/1998 FY97: $84,939 Total: $234,939
Prin. Invest.: A O ESOGBUE
Tech. Officer: JSC/J ATKINSON
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 9 927 GEORGIA INSTITUTE OF TECHNOLOGY **4036**
LO-SPEED AERODYNAMICS OF ADVANCED CRERW RECOV SYS
03/03/1997 – 03/31/1998 FY97: $45,000 Total: $45,000
Prin. Invest.: N KOMERATH, R FUNK
Tech. Officer: JSC/J PARK
CASE Category: 41 – AERONAUTICAL ENGNR

NAGW 533 GEORGIA INSTITUTE OF TECHNOLOGY **4037**
LAB EVAL OF MICROWAVE ALYOPTION TROPERTIES UNDER SIMULATED CONDIT ARY ATMOSPHERES
02/01/1984 – 10/31/1996 FY97: $0 Total: $844,372
Prin. Invest.: P G STEFFES
Tech. Officer: HQ/J T BERGSTRALH, HQ/W L QUAIDE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 1001 GEORGIA INSTITUTE OF TECHNOLOGY **4038**
LAB INVESTIGATION OF STRATOSPHERIC BROMINE CHEM.
01/01/1987 – 11/30/1996 FY97: $0 Total: $1,308,493
Prin. Invest.: P H WINE, J M NICOVICH, A J HYNES
Tech. Officer: HQ/M J KURYLO, HQ/R T WATSON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 2753 GEORGIA INSTITUTE OF TECHNOLOGY **4039**
ACOUSTIC CHARGE TRANSPORT IMAGER FOR HIGH DEFINITION TELEVISION APPLICATIONS: PROOF OF CONCEPT DEMO
09/27/1991 – 06/30/1997 FY97: $0 Total: $7,799,446
Prin. Invest.: W D HUNT
Tech. Officer: HQ/T BENTSEN
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAGW 3767 GEORGIA INSTITUTE OF TECHNOLOGY **4040**
NAGW-3767/GEORGIA INSTIT OF TECHNOLOGY/EXPERIMENTA L STUDY OF ATMOSPHERIC HOMOGENEOUS NUCLEATION
11/04/1993 – 05/31/1996 FY97: -$2,020 Total: $52,940
Prin. Invest.: F L EISELE
Tech. Officer: HQ/J A KAYE, HQ/A C JANETOS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3886 GEORGIA INSTITUTE OF TECHNOLOGY **4041**
PARRELLILIZATION AND VISUAL ANALYSIS OF DYNAMICAL/ CHEMICAL ATMOSPHERIC MODELS
03/09/1994 – 09/30/1997 FY97: $0 Total: $449,909
Prin. Invest.: K SCHWAN
Tech. Officer: HQ/G H MUCKLOW, HQ/J H BREDECAMP
CASE Category: 22 – COMPUTER SCIENCE

NAGW 4191 GEORGIA INSTITUTE OF TECHNOLOGY **4042**
PASSIVE MEASUREMENT AND INTERPRETATION OF POLARIZE D MICROWAVE BRIGHTNESS TEMPERATURES
10/31/1994 – 07/31/1997 FY97: $86,563 Total: $248,809
Prin. Invest.: A J GASIEWSKI
Tech. Officer: HQ/J S THEON, HQ/N MAYNARD
CASE Category: 45 – ELECTRICAL ENGR

NAGW 4246 GEORGIA INSTITUTE OF TECHNOLOGY **4043**
IMPROVING VERTICAL TRANSPORT IN CHEMICAL TRANSORT MODELS
01/13/1995 – 06/30/1996 FY97: -$139 Total: $20,161
Prin. Invest.: D E HARTLEY
Tech. Officer: HQ/J A KAYE, HQ/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4332 GEORGIA INSTITUTE OF TECHNOLOGY **4044**
ADVANCE DESIGN PROGRAM
03/04/1995 – 07/31/1996 FY97: -$53 Total: $17,297
Prin. Invest.: J BRAZELL
Tech. Officer: HQ/A S MCGEE, HQ/G JOHNSTON
CASE Category: 49 – ENGINEERING, OTHER

NAGW 4692 GEORGIA INSTITUTE OF TECHNOLOGY **4045**
THE MEASUREMENT OF SULFUR OXIDATION PRODUCTS & THE IR ROLE IN HOMOGENEOUS NUCLEATION
08/10/1995 – 06/30/1998 FY97: $0 Total: $219,906
Prin. Invest.: F EISELE
Tech. Officer: HQ/G ASRAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4699 GEORGIA INSTITUTE OF TECHNOLOGY **4046**
DEVELOPMENT OF AIRBORNE EDDY-CORRELATION FLUX MEAS UREMENT FOR REATIVE OXIDES OF NITROGEN
09/08/1995 – 07/31/1997 FY97: $139,486 Total: $279,486
Prin. Invest.: J BRADSHAW
Tech. Officer: HQ/G ASRAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 5176 GEORGIA INSTITUTE OF TECHNOLOGY **4047**
COMPARISON OF INTERPLANETARY AND INTERSTELLAR DUST
10/25/1996 – 03/31/1998 FY97: $14,000 Total: $14,000
Prin. Invest.: J P BRADLEY
Tech. Officer: HQ/P ROGERS, HQ/H C BRINTON
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAS 1 18938 GEORGIA INSTITUTE OF TECHNOLOGY **4048**
SAGE III EXPERIMENT SCIENTIFIC SUPPORT/CUNNOLD
02/20/1990 – 01/31/2005 FY97: $60,000 Total: $384,700
Prin. Invest.: D M CUNNOLD
Tech. Officer: LARC/G L MADDREA/L R MCMASTER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 1 19061 GEORGIA INSTITUTE OF TECHNOLOGY **4049**
RESEARCH IN ACOUSTICS AND NOISE CONTROL
02/02/1990 – 02/01/1996 FY97: -$1,276 Total: $3,543,577
Prin. Invest.: K AHUJA
Tech. Officer: LARC/L R CLARK
CASE Category: 41 – AERONAUTICAL ENGNR

NAS 1 19954 GEORGIA INSTITUTE OF TECHNOLOGY **4050**
SAGE II SCIENTIFIC INVESTIGATION
05/05/1993 – 05/04/1996 FY97: $0 Total: $245,000
Prin. Invest.: D M CUNNOLD
Tech. Officer: LARC/G L MADDREA, LARC/M D MCCCORMICK
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 3 27361 GEORGIA INSTITUTE OF TECHNOLOGY **4051**
RF PROPAGTION EFFECTS
08/10/1994 – 09/30/1998 FY97: $0 Total: $129,834
Prin. Invest.: D HOWARD, P STEFFES
Tech. Officer: LERC/R BAUER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 1 229 GEORGIA INSTITUTE OF TECHNOLOGY **4052**
IMPROVING CONCEPTUAL DESIGN FOR LUANCH VEHICLESQ MY 1/3
06/10/1996 – 09/22/1997 FY97: $0 Total: $47,243
Prin. Invest.: J R OLDS
Tech. Officer: LARC/R A LEPSCH, LARC/C H ELDRED
CASE Category: 42 – ASTRONAUTICAL ENGR

NCC 2 824 GEORGIA INSTITUTE OF TECHNOLOGY **4053**
HUMAN–CENTERED DESIGN OF HUMAN–COMPUTER–HUMAN DIAL OGS IN AEROSPACE SYSTEMS
09/07/1993 – 07/31/1997 FY97: $0 Total: $312,341
Prin. Invest.: C M MITCHELL
Tech. Officer: ARC/E A PALMER, ARC/K CORKER
CASE Category: 49 – ENGINEERING, OTHER

NCC 2 922 GEORGIA INSTITUTE OF TECHNOLOGY **4054**
RESEARCH IN NONLINEAR FLIGHT CONTROL FOR TILT ROTO R AIRCRAFT OPERATING IN THE TERMINAL AREA
09/13/1995 – 08/31/1996 FY97: $0 Total: $61,346
Prin. Invest.: P J CALISE
Tech. Officer: ARC/R N CHEN
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 933 GEORGIA INSTITUTE OF TECHNOLOGY **4055**
CULTURAL VARIABILITY IN CREW COMMUNICATION
09/12/1995 – 09/30/1998 FY97: $154,000 Total: $229,000
Prin. Invest.: K J KNOESPEL, U M FISCHER–LOSS
Tech. Officer: ARC/J M ORASANU
CASE Category: 62 – PSYCHOLOGY SOCIAL ASPECTS

NCC 2 945 GEORGIA INSTITUTE OF TECHNOLOGY **4056**
ROTORCRAFT CENTERS OF EXCELLENCE
05/03/1996 – 12/31/1997 FY97: $1,194,030 Total: $2,385,411
Prin. Invest.: D C SCHRAGE, D A PETERS, K B BOTA
Tech. Officer: ARC/Y H YU, ARC/J M DAVIS
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 961 GEORGIA INSTITUTE OF TECHNOLOGY **4057**
MODELING, TRAINING, AND AIDING IN AEROSPACE SYSTEM S
07/18/1996 – 12/31/1997 FY97: $84,200 Total: $305,312
Prin. Invest.: C M MITCHELL
Tech. Officer: ARC/E A PALMER, ARC/K CORKER
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 981 GEORGIA INSTITUTE OF TECHNOLOGY **4058**
NONLINEAR FLIGHT CONTROL FOR TILT ROTOR AIRCRAFT O PERATING IN THE TERMINAL AREA
03/17/1997 – 06/30/1998 FY97: $61,110 Total: $61,110
Prin. Invest.: A J CALISE
Tech. Officer: ARC/R T N. CHEN
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 8 108 GEORGIA INSTITUTE OF TECHNOLOGY **4059**
HIGHLY REUSEABLE SPACE TRANSPORTATION SYSTEM CONCEPT EVAL-UATION
06/06/1996 – 12/06/1997 FY97: $38,750 Total: $55,250
Prin. Invest.: J R OLDS
Tech. Officer: GSFC/J T HOWELL
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 10007 GEORGIA INSTITUTE OF TECHNOLOGY **4060**
MULTIDISCIPLINARY DESIGN AND ANALYSIS FELLOWSHIP P ROGRAM
10/22/1993 – 12/31/1996 FY97: $0 Total: $249,922
Prin. Invest.: D P SCHRAGE, J I CRAIG
Tech. Officer: HQ/G S SEIDEL, HQ/J R FACEY
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 30345 GEORGIA INSTITUTE OF TECHNOLOGY **4061**
GLOBAL CHANGE FELLOWSHIP AWARD
09/13/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: P H WINE
Tech. Officer: HQ/R A SCHIFFER, HQ/G ASRAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 40013 GEORGIA INSTITUTE OF TECHNOLOGY **4062**
NATION SPACE GRANT AND FELLOWSHIP PROGRAM
09/29/1989 – 01/31/1997 FY97: $0 Total: $2,384,000
Prin. Invest.: D A PETERS
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51042 GEORGIA INSTITUTE OF TECHNOLOGY **4063**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/06/1993 – 12/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: W T RHODES
Tech. Officer: MSFC/F SIX
CASE Category: 45 – ELECTRICAL ENGR

NGT 51088 GEORGIA INSTITUTE OF TECHNOLOGY **4064**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/14/1993 – 06/30/1996 FY97: –$451 Total: $65,549
Prin. Invest.: G P NEITZEL
Tech. Officer: HQ/D A HOLLAND
CASE Category: 46 – MECHANICAL ENGR

NGT 51102 GEORGIA INSTITUTE OF TECHNOLOGY **4065**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/25/1993 – 09/30/1996 FY97: $0 Total: $66,000
Prin. Invest.: KEMPER
Tech. Officer: HQ/J T LYNCH
CASE Category: 46 – MECHANICAL ENGR

NGT 51112 GEORGIA INSTITUTE OF TECHNOLOGY **4066**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/22/1993 – 12/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: A SAXENA
Tech. Officer: LARC/E PRIOR
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 51115 GEORGIA INSTITUTE OF TECHNOLOGY **4067**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/23/1993 – 04/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: K A CUNEFARE
Tech. Officer: HQ/F T LYNCH
CASE Category: 46 – MECHANICAL ENGR

NGT 51154 GEORGIA INSTITUTE OF TECHNOLOGY **4068**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/04/1993 – 09/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: K SCHWAN
Tech. Officer: HQ/D HOLLAND
CASE Category: 22 – COMPUTER SCIENCE

NGT 51178 GEORGIA INSTITUTE OF TECHNOLOGY **4069**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/18/1993 – 12/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: D L MCDOWELL
Tech. Officer: LERC/F MONTEGANI
CASE Category: 46 – MECHANICAL ENGR

NGT 51192 GEORGIA INSTITUTE OF TECHNOLOGY **4070**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/29/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: D N HILL
Tech. Officer: LERC/F MONTEGANI
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 51250 GEORGIA INSTITUTE OF TECHNOLOGY **4071**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/14/1994 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: J I CRAIG
Tech. Officer: HQ/P SMITH
CASE Category: 22 – COMPUTER SCIENCE

NGT 51346 GEORGIA INSTITUTE OF TECHNOLOGY **4072**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/22/1994 – 12/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: M K SMITH
Tech. Officer: HQ/G A LESANE
CASE Category: 46 – MECHANICAL ENGR

NGT 70254 GEORGIA INSTITUTE OF TECHNOLOGY **4073**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/11/1992 – 06/30/1996 FY97: –$11,000 Total: $77,000
Prin. Invest.: W J WEPFER
Tech. Officer: HQ/D K RUSSELL
CASE Category: 46 – MECHANICAL ENGR

NGT 70315 GEORGIA INSTITUTE OF TECHNOLOGY **4074**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
06/29/1993 – 09/30/1996 FY97: $0 Total: $66,000
Prin. Invest.: W M HADDAD
Tech. Officer: HQ/D K RUSSELL
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 70356 GEORGIA INSTITUTE OF TECHNOLOGY **4075**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/31/1993 – 07/31/1996 FY97: $0 Total: $28,950
Prin. Invest.: R GERHARDT
Tech. Officer: HQ/D K RUSSELL
CASE Category: 45 – ELECTRICAL ENGR

NGT 70383 GEORGIA INSTITUTE OF TECHNOLOGY **4076**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
09/29/1994 – 06/30/1997 FY97: –$3,510 Total: $88,000
Prin. Invest.: M LIU, A S ABHIRAMAN
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 70406 GEORGIA INSTITUTE OF TECHNOLOGY **4077**
UNDERREPRESENTED MINORITY AND DISABLED FOCUS GRADUATE STUDENT RESEARCHERS PROGRAM
04/03/1995 – 07/31/1997 FY97: $0 Total: $30,596
Prin. Invest.: J LASKER
Tech. Officer: HQ/D K RUSSELL
CASE Category: 46 – MECHANICAL ENGR

NGT 90081 GEORGIA INSTITUTE OF TECHNOLOGY **4078**
NGT–90081/GA INSTITUTE OF TECHNOLOGY/UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
09/17/1992 – 08/14/1996 FY97: –$3,989 Total: $44,011
Prin. Invest.: L R HOWARD
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90082 GEORGIA INSTITUTE OF TECHNOLOGY **4079**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
09/12/1992 – 08/14/1996 FY97: $0 Total: $48,000
Prin. Invest.: L R HOWARD
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90200 GEORGIA INSTITUTE OF TECHNOLOGY **4080**
UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
08/25/1993 – 08/14/1996 FY97: $0 Total: $36,000
Prin. Invest.: L HOWARD
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90201 GEORGIA INSTITUTE OF TECHNOLOGY **4081**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/25/1993 – 08/14/1996 FY97: $0 Total: $36,000
Prin. Invest.: L HOWARD
Tech. Officer: HQ/D RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90202 GEORGIA INSTITUTE OF TECHNOLOGY **4082**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/27/1993 – 08/14/1996 FY97: $0 Total: $36,000
Prin. Invest.: L HOWARD
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90277 GEORGIA INSTITUTE OF TECHNOLOGY **4083**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
01/09/1995 – 08/14/1996 FY97: –$772 Total: $23,228
Prin. Invest.: L HOWARD
Tech. Officer: HQ/D K RUSSELL
CASE Category: 22 – COMPUTER SCIENCE

NGT 1 52111 GEORGIA INSTITUTE OF TECHNOLOGY **4084**
GRADUATE STUDENT RESEARCHER PROGRAM (GSRP)
06/15/1995 – 06/30/1998 FY97: $10,000 Total: $54,000
Prin. Invest.: M R KIRBY, D N MARVRIS (ADVISOR
Tech. Officer: LARC/G L GILES
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 1 52132 GEORGIA INSTITUTE OF TECHNOLOGY **4085**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
06/06/1996 – 06/30/1998 FY97: $10,000 Total: $32,000
Prin. Invest.: A M HONOHAN, A GLEZER (ADVISOR)
Tech. Officer: LARC/R W WLEZIEN
CASE Category: 46 – MECHANICAL ENGR

NGT 1 52143 GEORGIA INSTITUTE OF TECHNOLOGY **4086**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
07/03/1996 – 08/14/1998 FY97: $10,000 Total: $32,000
Prin. Invest.: S DONYLUK
Tech. Officer: LARC/I S RAJU, LARC/C C POE, JR.
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 1 52149 GEORGIA INSTITUTE OF TECHNOLOGY **4087**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) TRANSFERRED FROM NASA HQ–NGT–51250
07/30/1996 – 06/30/1997 FY97: $1 Total: $22,001
Prin. Invest.: J I CRAIG
Tech. Officer: LARC/R A HATHAWAY
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 1 52156 GEORGIA INSTITUTE OF TECHNOLOGY **4088**
NASA MDA FELLOWSHIP PROGRAM NASA MILTIDISCIPLINARY DESIGN AND ANALYSIS
01/24/1997 – 11/30/1997 FY97: $200,000 Total: $200,000
Prin. Invest.: D P SCHRAGE
Tech. Officer: LARC/G L GILES
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 1 52162 GEORGIA INSTITUTE OF TECHNOLOGY **4089**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
06/11/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: B V GIBBENS
Tech. Officer: LARC/J E GARDNER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 1 52163 GEORGIA INSTITUTE OF TECHNOLOGY **4090**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
09/03/1997 – 09/02/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J R OLDS, D W WAY
Tech. Officer: LARC/R A LEPSCH, LARC/L R ROWELL
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 1 52170 GEORGIA INSTITUTE OF TECHNOLOGY **4091**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
04/15/1997 – 06/30/1998 FY97: $10,000 Total: $10,000
Prin. Invest.: F MISTREE
Tech. Officer: LARC/T A ZANG
CASE Category: 46 – MECHANICAL ENGR

NGT 3 52329 GEORGIA INSTITUTE OF TECHNOLOGY **4092**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/10/1997 – 09/14/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: E W ZEGURA
Tech. Officer: LERC/F J MONTEGANI
CASE Category: 22 – COMPUTER SCIENCE

NGT 3 52334 GEORGIA INSTITUTE OF TECHNOLOGY **4093**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/11/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: G T ZHOU
Tech. Officer: LERC/F J MONTEGANI
CASE Category: 49 – ENGINEERING, OTHER

NGT 3 52338 GEORGIA INSTITUTE OF TECHNOLOGY **4094**
GRADUATE STUDENT RESEARCHERS PROGRAM GRADUATE STUDENT RESEARCHERS PROGRAM
09/11/1997 – 08/03/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: M LIU
Tech. Officer: LERC/F J MONTEGANI
CASE Category: 49 – ENGINEERING, OTHER

NGT 4 52405 GEORGIA INSTITUTE OF TECHNOLOGY **4095**
GRADUATRE STUDENT RESEARCHERS PROGRAM ROBUST LINEAR & NONLINEAR CONTROL FOR JET ENGINE
06/25/1997 – 07/01/1998 FY97: $21,860 Total: $21,860
Prin. Invest.: J CORRADO, W HADDAD
Tech. Officer: DFRC/K K GUPTA
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 31 GEORGIA INSTITUTE OF TECHNOLOGY **4096**
LOSSLESS IMAGE COMPRESSION USING ALPHABET CONSTRAI NED FILTER BANKS
07/29/1996 – 07/31/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: M T SMITH
Tech. Officer: GSFC/G A SOFFEN, GSFC/J TILTON
CASE Category: 22 – COMPUTER SCIENCE

NGT 5 30069 GEORGIA INSTITUTE OF TECHNOLOGY **4097**
DEVELOPMENT OF A SELECT ION ATMOSPHERIC PRESSURE C S SPECTROMETRY TECHNIQUE FOR THE MEASUREMENT OF T
09/10/1997 – 08/31/1998 FY97: $21,950 Total: $21,950
Prin. Invest.: W BRADSHA
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30099 GEORGIA INSTITUTE OF TECHNOLOGY **4098**
THE LABORATORY INVESTIGATION OF THE DIMETHYL SULFI /S. URBANSKI
09/15/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: P H WINE
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40023 GEORGIA INSTITUTE OF TECHNOLOGY **4099**
NATIONAL SPACE GRANT COLLEGE AND FELLOWHIP PROGRAM
02/03/1997 – 01/31/1998 FY97: $354,999 Total: $354,999
Prin. Invest.: E ARMANIOS
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90026 GEORGIA INSTITUTE OF TECHNOLOGY **4100**
UNDERGRADUATE STUDENTS AWARDS FOR RESEARCH (USAR)
02/03/1997 – 08/14/1997 FY97: $72,000 Total: $72,000
Prin. Invest.: L HOWARD
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 49 – ENGINEERING, OTHER

NGT 8 52830 GEORGIA INSTITUTE OF TECHNOLOGY **4101**
GRAD STUDENT RESEARCH PROGRAM FOR JULIE R. KOKAN
09/20/1996 – 09/23/1999 FY97: $22,000 Total: $44,000
Prin. Invest.: J R KOKAN
Tech. Officer: MSFC/D H SU
CASE Category: 49 – ENGINEERING, OTHER

NGT10 52602 GEORGIA INSTITUTE OF TECHNOLOGY **4102**
GRADUATE STUDENT RESEARCH PROGRAM
06/20/1995 – 06/30/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: H LIPKIN
Tech. Officer: KSC/R CAIMI
CASE Category: 46 – MECHANICAL ENGR

NGT10 52603 GEORGIA INSTITUTE OF TECHNOLOGY **4103**
A GRADUATE STUDENT RESEARCHERS PROGRAM
06/06/1995 – 06/30/1997 FY97: $0 Total: $40,600
Prin. Invest.: S M MURPHY
Tech. Officer: KSC/J SAGER
CASE Category: 55 – AGRICULTURE

NAG 5 496 GEORGIA SOUTHERN COLLEGE **4104**
LABORATORY STUDIES OF SMALL CARBON GRANDULES
02/01/1985 – 03/31/1998 FY97: $2,500 Total: $172,870
Prin. Invest.: R H NELSON
Tech. Officer: GSFC/B DONN, GSFC/J A NUTH
CASE Category: 12 – CHEMISTRY

NAG 9 913 GEORGIA SOUTHERN COLLEGE **4105**
PHYSICS OF INTERPLANETARY DUST COLLECTION WITH AER OGEL
09/27/1996 – 03/30/1998 FY97: $0 Total: $15,000
Prin. Invest.: W W ANDERSON
Tech. Officer: JSC/F HORZ
CASE Category: 13 – PHYSICS

NAGW 5106 GEORGIA SOUTHERN COLLEGE **4106**
X-RAY DIFFRACTOMETER/FLUORESCENCE SPECTROMETER FOR PLANETARY LANDERS
06/13/1996 – 05/31/1997 FY97: $0 Total: $44,985
Prin. Invest.: J R ANDERSON
Tech. Officer: HQ/T KOSTIUK, HQ/H C BRINTON
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 4592 GEORGIA SOUTHWESTERN COLLEGE **4107**
X-RAY DIFFRACTOMETER/FLUORESCENCE SPECTROMETER FOR
05/09/1997 – 05/31/1998 FY97: $60,000 Total: $60,000
Prin. Invest.: P W ANDERSON
Tech. Officer: GSFC/B CAMPBELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 2 438 GEORGIA STATE UNIVERSITY **4108**
SELECTION OF BEHAVIORAL TASKS AND DEVELOPMENT OF SWARE FOR EVALUATION OF RHESUS MONKEY BEHAVIOR DURI
03/01/1987 – 01/31/1998 FY97: $231,304 Total: $1,848,157
Prin. Invest.: D M RUMBAUGH, E S SAVAGE, W K RICHARDSON
Tech. Officer: ARC/P X CALLAHAN, ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 2979 GEORGIA STATE UNIVERSITY **4109**
IUE ATLAS OF RECONSTRUCTED SPECTRA OF HOT BINARY STARS FORMATION AND GALAXY EVOL.
07/10/1995 – 12/31/1997 FY97: $0 Total: $102,969
Prin. Invest.: D R GIES
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3098 GEORGIA STATE UNIVERSITY **4110**
INTRADAY VARIABILITY IN ACTIVE GALACTIC NUCLEI
10/11/1995 – 10/14/1997 FY97: $0 Total: $131,400
Prin. Invest.: P J WILTA
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3587 GEORGIA STATE UNIVERSITY **4111**
STUDY OF THE CORRELATED MULTIWAVELENGTH VARIABILIT
12/11/1996 – 12/14/1997 FY97: $1,000 Total: $1,000
Prin. Invest.: H MILLER
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3667 GEORGIA STATE UNIVERSITY **4112**
A MULTIWAVELENGTH STUDY OF THE GAMMA-RAY BLAZAR PK
12/31/1996 – 12/31/1997 FY97: $4,000 Total: $4,000
Prin. Invest.: H MILLER
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 4091 GEORGIA STATE UNIVERSITY **4113**
ABSORPTION AND EMISSION OF EXCITED AND GROUND STAT THE AND VISIBLE WAVELENGTH RANGES
03/13/1997 – 12/31/1997 FY97: $31,000 Total: $31,000
Prin. Invest.: D T MANSON
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 4950 GEORGIA STATE UNIVERSITY **4114**
WAVELENGTH-TUNABLE NOVEL SEMICONDUCTOR FIR DETECTO RESEARCH
06/23/1997 – 06/14/1998 FY97: $64,000 Total: $64,000
Prin. Invest.: D PERERA
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAGW 4280 GEORGIA STATE UNIVERSITY **4115**
ABSORPTION AND EMISSION OF EXCITED AND GROUND STAT E ATOMS AND IONS IN THE ULTRAVIOLET AND VISIBLE
02/13/1995 – 09/30/1997 FY97: $0 Total: $62,000
Prin. Invest.: S T MANSON
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 4397 GEORGIA STATE UNIVERSITY **4116**
MULTI-FREQUENCY MICROVARIABILITY STUDIES OF THE SE DS OF AGNS
05/12/1995 – 09/30/1997 FY97: $0 Total: $192,705
Prin. Invest.: H R MILLER
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAG10 235 GEORGIA STATE UNIVERSITY **4117**
TEACH A SURVEY MATH/STATISTICAL COURSE & BASIC QUALITY CONTROL COURSE
09/30/1997 – 09/30/1998 FY97: $47,901 Total: $47,901
Prin. Invest.: R PATTERSON
Tech. Officer: KSC/R TELLEY
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 8 1107 KENNESAW STATE COLLEGE **4118**
JOVE
10/24/1994 – 05/31/1998 FY97: $0 Total: $36,000
Prin. Invest.: T LAROSA
Tech. Officer: MSFC/F SIX
CASE Category: 11 – ASTRONOMY

NAG 8 1231 MOREHOUSE COLLEGE **4119**
R/S A NASA/UNIVERSITY JOINT VENTURE IN SPACE SCIENCE (JOVE), THIS DOCUMENT 1ST YEAR FUNDING
10/31/1996 – 05/31/1998 FY97: $57,000 Total: $57,000
Prin. Invest.: G WALKER, O H AKPAN
Tech. Officer: MSFC/E COTHRAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 9 880 MOREHOUSE COLLEGE **4120**
INSPIRING CAREERS IN ENG/MATH/SCI
11/01/1996 – 09/30/1997 FY97: $25,000 Total: $25,000
Prin. Invest.: B J MARTIN
Tech. Officer: JSC/J D ATKINSN
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 9 964 MOREHOUSE COLLEGE **4121**
SIMULATED MOCROGRAVITY ...
09/25/1997 – 05/30/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: K DUTT
Tech. Officer: JSC/K KRISHEN
CASE Category: 56 – MEDICL

NGT 90025 MOREHOUSE COLLEGE **4122**
PROJECT SPACE STRATEGIC PREPAREDNESS ADVANCING CAREER
03/08/1989 – 06/30/1997 FY97: $753,449 Total: $9,731,243
Prin. Invest.: W JACKSON, M W GREENE
Tech. Officer: HQ/Y FREEMAN/B PETERS
CASE Category: 49 – ENGINEERING, OTHER

NGT 5 90061 MOREHOUSE COLLEGE **4123**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
02/26/1997 – 08/14/1997 FY97: $24,000 Total: $24,000
Prin. Invest.: B MARTIN
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 21 – MATHEMATICS

NAG 9 644 MOREHOUSE SCHOOL MED **4124**
CELLULAR RESPONSE TO HYPOGRAVITY & HYPERGRAVITY ST RESS
09/22/1992 – 09/18/1997 FY97: $0 Total: $486,000
Prin. Invest.: G L SANFORD
Tech. Officer: JSC/C SAMS
CASE Category: 56 – MEDICL

NAG 9 852 MOREHOUSE SCHOOL MED **4125**
ASSESSING THE PUTATIVE MACHANISMS OF GRAVITY INDUS ED CELLULAR CHANGES
09/28/1995 – 09/30/1997 FY97: $70,912 Total: $145,899
Prin. Invest.: G L SANFORD
Tech. Officer: JSC/J D ATKINSON
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 9 871 MOREHOUSE SCHOOL MED **4126**
SYMPOSIUM ON CAREER OPPORTUNITIES IN BIOMEDICAL AND PUBLIC HEALTH SCIENCES
06/19/1996 – 11/30/1996 FY97: $0 Total: $50,000
Prin. Invest.: W W SULLIVAN
Tech. Officer: JSC/J D ATKINSON
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 9 932 MOREHOUSE SCHOOL MED **4127**
SYMPOSIUM ON CAREER OPPORTUNITIES IN BIOMEDICAL & PUBLIC HEALTH SCIENCES
04/23/1997 – 08/31/1997 FY97: $50,000 Total: $50,000
Prin. Invest.: W W SULLIVAN
Tech. Officer: JSC/J D ATKINSON
CASE Category: 56 – MEDICL

NAG 9 954 MOREHOUSE SCHOOL MED **4128**
SUMMER SCIENCE INSTITUTE
07/29/1997 – 05/01/1998 FY97: $49,335 Total: $49,335
Prin. Invest.: J LIVERPOOL
Tech. Officer: JSC/J ATKINS
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 9 963 MOREHOUSE SCHOOL MED **4129**
GRAVITY-INDUCED CHANGES ON THE STERIDOGENSIS ...
09/25/1997 – 06/29/1998 FY97: $99,966 Total: $99,966
Prin. Invest.: R SRIDARAN
Tech. Officer: JSC/K KRISHEN
CASE Category: 56 – MEDICL

NAG 9 971 MOREHOUSE SCHOOL MED **4130**
EFFECT OF MICRO GRAV ON DISPO & BIOTRANS OF THERAPEUTIC AGENTS ...
09/25/1997 – 07/31/1998 FY97: $200,000 Total: $200,000
Prin. Invest.: D POTTER
Tech. Officer: JSC/L PUTCHA
CASE Category: 42 – ASTRONAUTICAL ENGR

NCC 2 936 MOREHOUSE SCHOOL MED **4131**
THE NEUROLAB EDUCATION PROGRAM IN THE DECADE OF TH E BRAIN
12/05/1995 – 11/30/1997 FY97: $498,740 Total: $998,505
Prin. Invest.: W W SULLIVAN
Tech. Officer: ARC/D R LISKOWSKY, ARC/K A SOUZA
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCCW 83 MOREHOUSE SCHOOL MED **4132**
DEVELOPMENT OF A MINORITY SPACE MEDICINE AND LIFE SCIENCE RESEARCH CENTER
08/11/1995 – 06/30/1997 FY97: $0 Total: $2,780,098
Prin. Invest.: M L THERRY-PALMER
Tech. Officer: HQ/B L WHITE
CASE Category: 56 – MEDICL

NAG 8 1169 MORRIS BROWN COLLEGE **4133**
INTERNET NEWWORK RESOURCES OF SCIENCE MATH ENGINGE ERING AND TECHNOLOGIES
04/03/1996 – 04/03/1997 FY97: $0 Total: $191,854
Prin. Invest.: F I OKOH
Tech. Officer: MSFC/A C BEAM, MSFC/J JACKSON
CASE Category: 22 – COMPUTER SCIENCE

NCC 3 362 SAVANNAH STATE COLLEGE **4134**
ACTS FOR DISTANCE EDUCATION IN DEVELOPING COUNTRIE S
09/29/1994 – 09/28/1997 FY97: $0 Total: $571,750
Prin. Invest.: A KALU, G G VENTRE
Tech. Officer: LERC/M S PLECITY, LERC/R J SCHERTLER
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1974 SPELMAN COLLEGE **4135**
DEVELOPMENT OF SYNCHRONOUSLY SCANNED OPO CARS AS N EW PROBE FOR HOSTILE ENVIRONMENTS
10/11/1996 – 10/03/1999 FY97: $49,558 Total: $49,558
Prin. Invest.: P C CHEN
Tech. Officer: LERC/Y R HICKS
CASE Category: 12 – CHEMISTRY

NCC 5 237 SPELMAN COLLEGE **4136**
MODEL INSTITUTIONS FOR EXCELLENCE (MIE) PRICE OF THE TOTAL AWARD FOR THIS PERIOD IS $1,554,661.
09/11/1997 – 06/30/1998 FY97: $800,000 Total: $800,000
Prin. Invest.: E FALCONER
Tech. Officer: GSFC/L RANDOLPH
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 8 71 SPELMAN COLLEGE **4137**
POTENTIAL USE OF HALOGENATED TETRAPHENYLPORPHYRINS IN NON-LINEAR OPTICAL MATRIALS
04/06/1995 – 10/30/1997 FY97: $98,979 Total: $198,355
Prin. Invest.: B H CARDELINO, P C CHEN
Tech. Officer: MSFC/B G PENN, MSFC/W J LOVE
CASE Category: 12 – CHEMISTRY

NCC 8 144 SPELMAN COLLEGE **4138**
INTEGRATED APPROACH TO THE PREDICTION OF HYPER- POLARIZABILTY OF ORGANIC CRYSTALS
08/22/1997 – 08/31/1998 FY97: $144,833 Total: $144,833
Prin. Invest.: B CARDELINO
Tech. Officer: MSFC/C MOORE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCCW 78 SPELMAN COLLEGE **4139**
MODEL INSTITUTIONS FOR EXCELLENCE
06/12/1995 – 06/30/1997 FY97: $1,736,225 Total: $3,250,263
Prin. Invest.: E FALCONER
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90003 SPELMAN COLLEGE **4140**
GRADUATE STUDENT RESEARCHERS
12/01/1986 – 12/31/1996 FY97: $0 Total: $9,049,017
Prin. Invest.: E FALCONER
Tech. Officer: HQ/B WHITE
CASE Category: 45 – ELECTRICAL ENGR

NGT 90049 SPELMAN COLLEGE **4141**
UNDERGRADUATE STUDENT RESEARCHERS PRG
08/22/1991 – 08/31/1996 FY97: $0 Total: $661,741
Prin. Invest.: E FALCONER
Tech. Officer: HQ/B WHITE
CASE Category: 49 – ENGINEERING, OTHER

NGT 90090 SPELMAN COLLEGE **4142**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
09/24/1992 – 08/14/1996 FY97: $0 Total: $48,002
Prin. Invest.: E FALCONER
Tech. Officer: HQ/D RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90092 SPELMAN COLLEGE **4143**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
09/24/1992 – 08/14/1996 FY97: $0 Total: $48,000
Prin. Invest.: E FALCONER
Tech. Officer: HQ/D RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90093 SPELMAN COLLEGE **4144**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
09/17/1992 – 08/14/1996 FY97: $0 Total: $48,000
Prin. Invest.: E FALCONER
Tech. Officer: HQ/D RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90094 SPELMAN COLLEGE **4145**
GSRP/UMF
09/24/1992 – 08/14/1996 FY97: $0 Total: $48,000
Prin. Invest.: E FALCONER
Tech. Officer: HQ/D RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90096 SPELMAN COLLEGE **4146**
GSRP/UMF
09/24/1992 – 08/14/1996 FY97: $0 Total: $48,000
Prin. Invest.: E FALCONER
Tech. Officer: HQ/D RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90185 SPELMAN COLLEGE **4147**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
09/07/1993 – 08/31/1996 FY97: $0 Total: $36,000
Prin. Invest.: E FALCONER
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90186 SPELMAN COLLEGE **4148**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/27/1993 – 08/14/1996 FY97: $0 Total: $36,000
Prin. Invest.: E FALCONER
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90187 SPELMAN COLLEGE **4149**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/27/1993 – 08/14/1996 FY97: $0 Total: $36,000
Prin. Invest.: E FALCONER
Tech. Officer: HQ/D RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90258 SPELMAN COLLEGE **4150**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
12/20/1994 – 08/14/1996 FY97: $0 Total: $48,000
Prin. Invest.: E FALCONER
Tech. Officer: HQ/D K RUSSELL
CASE Category: 21 – MATHEMATICS

NGT 5 90001 SPELMAN COLLEGE **4151**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
12/31/1996 – 08/14/1997 FY97: $229,800 Total: $229,800
Prin. Invest.: E FALCONER
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 21 – MATHEMATICS

NGT 5 90068 SPELMAN COLLEGE **4152**
WISE SCHOLARS PROGRAM
04/04/1997 – 12/31/1997 FY97: $1,353,440 Total: $1,353,440
Prin. Invest.: D FALCONER
Tech. Officer: GSFC/B WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 1610 UNIVERSITY OF GEORGIA **4153**
HIGH-RESOLUTION X-RAY OBSERVATIONS OF THE TRAPEZIU M CLUSTER
10/15/1991 – 04/14/1998 FY97: $0 Total: $115,752
Prin. Invest.: J P CAILLAULT
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2095 UNIVERSITY OF GEORGIA **4154**
NEAR-CONTACT BINARY STARS
09/15/1992 – 09/14/1997 FY97: $0 Total: $22,517
Prin. Invest.: J S SHAW
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2409 UNIVERSITY OF GEORGIA **4155**
THE N(H2) – INFRARED CALIBRATION IN MOLECULAR CLOU DS
11/09/1993 – 11/14/1995 FY97: –$4 Total: $28,496
Prin. Invest.: L MAGNANI
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3433 UNIVERSITY OF GEORGIA **4156**
THE RELATIONSHIP BETWEEN GAS AND DUST IN HI SHELLS
10/01/1996 – 09/30/1997 FY97: $33,000 Total: $33,000
Prin. Invest.: L MAGNANI
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3618 UNIVERSITY OF GEORGIA **4157**
MODEL ATMOSPHERES OF NOVAE IN OUTBURST
12/05/1996 – 09/30/1997 FY97: $30,100 Total: $30,100
Prin. Invest.: P H HAUSCHILDT
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3619 UNIVERSITY OF GEORGIA **4158**
MULTIWAVELENGTH MODELING OF NOVA ATMOSPHERES
12/06/1996 – 04/30/1998 FY97: $127,334 Total: $127,334
Prin. Invest.: P HAUSCHILDT
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 6322 UNIVERSITY OF GEORGIA **4159**
STABLE ISOTOPIC ANALYSIS OF SECONDARY MINERALS IN
09/05/1997 – 07/31/1998 FY97: $45,000 Total: $45,000
Prin. Invest.: C ROMANEK
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAGW 4573 UNIVERSITY OF GEORGIA **4160**
ESTIMATION OF ABLATION RATES ON THE GREENLAND ICE SHEET FROM MICROWAVE RADIOMETRIC OBSERVATIONS
06/09/1995 – 09/30/1997 FY97: $0 Total: $68,388
Prin. Invest.: T MOTE
Tech. Officer: HQ/R H THOMAS, HQ/M BALTUCK
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 8 97081 UNIVERSITY OF GEORGIA **4161**
LAND USE/COVER AND LAND SURFACE TEMPERATURE CHANGE MAPPING & NORMALIZED DIFFERENCE VEGETATION INDEX
11/04/1996 – 11/03/1998 FY97: $111,400 Total: $111,400
Prin. Invest.: D P LO
Tech. Officer: MSFC/T MILLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 51199 UNIVERSITY OF GEORGIA **4162**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/03/1993 – 07/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: G A DUDLEY
Tech. Officer: KSC/S GOLDSTEIN
CASE Category: 56 – MEDICL

NGT 70345 UNIVERSITY OF GEORGIA **4163**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
06/30/1993 – 06/30/1996 FY97: $0 Total: $66,000
Prin. Invest.: R HODSON
Tech. Officer: HQ/D K RUSSELL
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30017 UNIVERSITY OF GEORGIA **4164**
MEASUREMENT OF IN SITU GROWTH RATES OF TWO IMPORTA PRODUCERS USING FLOW CYTOMETRY AND RRNA-TARGETED
10/23/1996 – 08/31/1997 FY97: $44,000 Total: $44,000
Prin. Invest.: B BINDER
Tech. Officer: GSFC/G ASRAR
CASE Category: 33 – OCEANOGRAPHY

NAG 5 3468 VALDOSTA STATE UNIVERSITY **4165**
ROTATIONAL EVOLUTION OF COOL STARS FROM THE ZAMS T
10/28/1996 – 10/31/1997 FY97: $79,000 Total: $79,000
Prin. Invest.: D L BUZASI
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4289 VALDOSTA STATE UNIVERSITY **4166**
TESTING AN ALGAE-BASED AIR REGENERATION SYSTEM
04/09/1997 – 12/31/1997 FY97: $13,326 Total: $13,326
Prin. Invest.: J NIENOW
Tech. Officer: GSFC/M AVERNER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 8 1264 VALDOSTA STATE UNIVERSITY **4167**
"JOVE" RESEARCH
01/17/1997 – 08/31/1998 FY97: $63,591 Total: $63,591
Prin. Invest.: M LEAKE, D BOGYO
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4897 VALDOSTA STATE UNIVERSITY **4168**
TESTING AN ALGAE-BASED AIR-REGENERATION SYSTEM
02/05/1996 – 10/30/1997 FY97: $0 Total: $21,240
Prin. Invest.: J A NIENOW
Tech. Officer: HQ/M AVERNER
CASE Category: 59 – LIFE SCIENCE, OTHER

HAWAII

NAG 1 1487 UNIVERSITY OF HAWAII – MANOA **4169**
IMPROVED STRESS RECOVERY AND ERROR ESTIMATION IN FINITE ELEMENT ANALYSIS
03/16/1993 – 09/15/1996 FY97: $0 Total: $238,657
Prin. Invest.: H R RIGGS
Tech. Officer: LARC/A TESSLER
CASE Category: 46 – MECHANICAL ENGR

NAG 1 1763 UNIVERSITY OF HAWAII – MANOA **4170**
AEROSOL SULFUR AND NITRIC ACID VAPOR CONCENTRATION IN THE REMOTE PACIFIC TROPOSPHERE
09/29/1995 – 12/31/1997 FY97: $0 Total: $157,952
Prin. Invest.: B J HUEBERT, B J HUEBERT
Tech. Officer: LARC/J M HOELL, JR., LARC/R J BENDURA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 931 UNIVERSITY OF HAWAII – MANOA **4171**
LOW XOMPLEXITY, HIGH–PERFORMANCE, BANDWIDTH EFFICI ENT CODING AND CODED MODULATION TECHNIQUES. . . .
07/01/1987 – 05/31/1997 FY97: $48,200 Total: $631,471
Prin. Invest.: S LIN
Tech. Officer: GSFC/J C MORAKIS
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 1880 UNIVERSITY OF HAWAII – MANOA **4172**
PSPC OBS. OF 12 EMSS UNIDENTIFIED SOURCES: VERY D ISTANT CLUSTERS OF GALAXIES OR UNUSUAL X–RAY EMIT
02/10/1992 – 02/14/1998 FY97: $0 Total: $75,562
Prin. Invest.: J P HENRY
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2022 UNIVERSITY OF HAWAII – MANOA **4173**
THE ONSET OF CORONAL ACTIVITY
07/15/1992 – 01/14/1998 FY97: $0 Total: $103,491
Prin. Invest.: T SIMON
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2150 UNIVERSITY OF HAWAII – MANOA **4174**
1) CONVECTION, GRANULATION, AND THERMAL BIFURCATIO N IN THE A STARS 2) ACTIVITY CYCLEOF THE HERBIG.
12/14/1992 – 01/31/1997 FY97: $0 Total: $63,500
Prin. Invest.: T SIMON
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2275 UNIVERSITY OF HAWAII – MANOA **4175**
EUVE OBSERVATIONS OF THE DME FLARE STAR AD LEO
05/26/1993 – 11/30/1997 FY97: $0 Total: $80,000
Prin. Invest.: T SIMON
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 2486 UNIVERSITY OF HAWAII – MANOA **4176**
PARALLEL IMAGE COMPRESSION BY NEURAL NETWORKS
02/04/1994 – 02/14/1998 FY97: $0 Total: $89,974
Prin. Invest.: D Y YUN
Tech. Officer: GSFC/J R FISCHER
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2523 UNIVERSITY OF HAWAII – MANOA **4177**
X–RAY TEMPERATURE FOR A COMPLETE SAMPLE OF DISTANT CLUSTERS
02/24/1994 – 03/14/1998 FY97: $0 Total: $92,232
Prin. Invest.: J P HENRY
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2594 UNIVERSITY OF HAWAII – MANOA **4178**
HRI OBSERVATIONS OF MS0440.5+0204: A LUMINOUS X–R AY CLUSTER WITH A COMPLEX ARC SYSTEM
05/10/1994 – 05/14/1996 FY97: $0 Total: $30,908
Prin. Invest.: I GIOIA
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2663 UNIVERSITY OF HAWAII – MANOA **4179**
PARTICIPATION IN THE CONSOLIDATED INFRARED SPEC– TROMETER (CIRS) AS CO–INVESTIGATOR
07/21/1994 – 07/31/1997 FY97: $7,845 Total: $22,432
Prin. Invest.: T OWEN
Tech. Officer: GSFC/V KUNDE
CASE Category: 11 – ASTRONOMY

NAG 5 2675 UNIVERSITY OF HAWAII – MANOA **4180**
IRAS (HIRES) STUDIES OF HIGH MASS STAR FORMATION
08/11/1994 – 08/14/1996 FY97: $0 Total: $90,500
Prin. Invest.: C WYNN–WILLIAMS
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2695 UNIVERSITY OF HAWAII – MANOA **4181**
NASA DIGITAL IMAGE DATA DISTRIBUTION FOR EDUCATION PUBLIC ACCESS AND TOURISM IN HAWAII: A MODEL SYS.
08/17/1994 – 08/31/1997 FY97: $300,000 Total: $851,210
Prin. Invest.: P J MOUGINIS–MARK
Tech. Officer: GSFC/F HASLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2836 UNIVERSITY OF HAWAII – MANOA **4182**
DYNAMICS OF GAS IN GROUPS OF GALAXIES
12/12/1994 – 12/14/1997 FY97: $0 Total: $26,000
Prin. Invest.: J E BARNES
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3000 UNIVERSITY OF HAWAII – MANOA **4183**
ANALYSIS OF DIGITAL TOPOGRAPHY OF VOLCANOES
07/18/1995 – 07/31/1997 FY97: $125,000 Total: $341,226
Prin. Invest.: P J MOUGINIS–MARK
Tech. Officer: GSFC/H F FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3370 UNIVERSITY OF HAWAII – MANOA **4184**
TWO EXTREMELY RED GALAXIES
09/06/1996 – 08/14/1997 FY97: $0 Total: $284,000
Prin. Invest.: R D JOSEPH
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3388 UNIVERSITY OF HAWAII – MANOA **4185**
COORDINATED OBSERVATIONS OF AD LEO: TESTING THE F LARE MODEL
09/05/1996 – 03/14/1998 FY97: $0 Total: $26,797
Prin. Invest.: T SIMON
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3451 UNIVERSITY OF HAWAII – MANOA **4186**
ANALYSIS OF VOLCANIC ERUPTIONS AND FIRES USING LAN DSAT 7
10/07/1996 – 10/31/1997 FY97: $64,215 Total: $64,215
Prin. Invest.: D FLYNN
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3875 UNIVERSITY OF HAWAII – MANOA **4187**
REGIONAL PLANETARY IMAGE CENTER
02/10/1997 – 11/14/1997 FY97: $50,000 Total: $50,000
Prin. Invest.: E R HAWKE
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4669 UNIVERSITY OF HAWAII – MANOA **4188**
THE SOLAR SYSTEM BEYOND NEPTUNE
06/17/1997 – 12/31/1997 FY97: $54,495 Total: $54,495
Prin. Invest.: D C JEWITT
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 8 994 UNIVERSITY OF HAWAII – MANOA **4189**
JOVE
01/25/1994 – 05/31/1998 FY97: $20,000 Total: $73,424
Prin. Invest.: W D HEACOX
Tech. Officer: MSFC/F SIX
CASE Category: 11 – ASTRONOMY

NAGW 237 UNIVERSITY OF HAWAII – MANOA **4190**
GEOLOGIC STUDIES OF PLANETARY VOLCANIC AND IMPACT PROCESS.
08/01/1986 – 09/30/1997 FY97: $0 Total: $915,915
Prin. Invest.: B R HAWKE
Tech. Officer: HQ/J UNDERWOOD, HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 437 UNIVERSITY OF HAWAII – MANOA **4191**
ANAL OF MARTIAN SURF MATERIALS USING RADAR THEMALA & COLOR DATA & GEOL EVOL OF THE HEAVILY CRATERED
05/05/1986 – 09/30/1997 FY97: $0 Total: $1,263,775
Prin. Invest.: P M MARK*Prin. Invest.:* NONE
Tech. Officer: HQ/J R UNDERWOOD, HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 712 UNIVERSITY OF HAWAII – MANOA **4192**
SPECTRAL STUDIES OF POSSIBLE ASTEROID MATERIALS
05/05/1986 – 09/30/1997 FY97: $0 Total: $433,600
Prin. Invest.: J F BELL
Tech. Officer: HQ/J UNDERWOOD JR, HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 802 UNIVERSITY OF HAWAII – MANOA **4193**
INFRARED SPECTRAL STUDIES OF ASTEROIDS
05/05/1986 – 09/30/1997 FY97: $0 Total: $449,405
Prin. Invest.: W J BELL
Tech. Officer: HQ/H C BRINTON, HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NAGW 1053 UNIVERSITY OF HAWAII – MANOA **4194**
REGIONAL PLANETARY IMAGE CENTER
11/15/1986 – 09/30/1997 FY97: $0 Total: $366,114
Prin. Invest.: B R HAWKE
Tech. Officer: HQ/T A MAXWELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1162 UNIVERSITY OF HAWAII – MANOA **4195**
TESTING A MODEL FOR THE MORPHIOLOGICAL EVOLUTION OF VOLCANOES
09/09/1987 – 09/30/1997 FY97: $0 Total: $676,946
Prin. Invest.: P J MARK
Tech. Officer: HQ/M BALTUCK, HQ/R E MURPHY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1421 UNIVERSITY OF HAWAII – MANOA **4196**
MINERALOGICAL MAPPING OF THE LUNAR SURFACE
08/09/1988 – 09/30/1996 FY97: $0 Total: $277,828
Prin. Invest.: P G LUCEY
Tech. Officer: HQ/T A MAXWELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1542 UNIVERSITY OF HAWAII – MANOA **4197**
RESEARCH IN CORONAL AND CHROMOSPHERIC PHYSICS IN SUPPORT
12/09/1988 – 09/30/1997 FY97: $0 Total: $2,351,093
Prin. Invest.: R C CANFIELD
Tech. Officer: HQ/J D BOHLIN, HQ/S KANE
CASE Category: 13 – PHYSICS

NAGW 1897 UNIVERSITY OF HAWAII – MANOA **4198**
OBSERVATIONAL EVIDENCE OF AGING PROCESSES IN COMET S
04/06/1990 – 04/30/1997 FY97: $0 Total: $425,585
Prin. Invest.: K J MEECH
Tech. Officer: HQ/J RAHE
CASE Category: 11 – ASTRONOMY

NAGW 2153 UNIVERSITY OF HAWAII – MANOA **4199**
OUTER SOLAR SYSTEM NOMENCLATURE
08/14/1990 – 09/30/1997 FY97: $0 Total: $30,549
Prin. Invest.: T OWEN
Tech. Officer: HQ/TA MAXWELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2174 UNIVERSITY OF HAWAII – MANOA **4200**
REMOTE COMPOSITIONAL ANALYSIS OF LUNAR AND PLANETA RY SURFACES
07/23/1990 – 09/30/1995 FY97: –$150 Total: $478,850
Prin. Invest.: T B MCCORD
Tech. Officer: HQ/T A MAXWELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2468 UNIVERSITY OF HAWAII – MANOA **4201**
A GLOBAL ASSESSMENT OF ACTIVE VOLCANISM VOLCANIC H AZARDS, AND VOLCANIC INPUTS TO THEATMOS. FROM EO
04/30/1991 – 09/30/1997 FY97: $0 Total: $1,713,000
Prin. Invest.: P MOUQINIS-MARK
Tech. Officer: HQ/M BALTUCK, HQ/B J MALCOLM
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 2631 UNIVERSITY OF HAWAII – MANOA **4202**
LABORATORY INVESTIGATIONS OF VOLATILE TRAPPING IN COMETS
09/04/1991 – 08/31/1997 FY97: $59,000 Total: $392,343
Prin. Invest.: T C OWEN
Tech. Officer: HQ/J D RUMMEL
CASE Category: 12 – CHEMISTRY

NAGW 2650 UNIVERSITY OF HAWAII – MANOA **4203**
NAGW-2650/UNIV HAWAII/SPECTROSCOPIC OBSERVATIONS OF THE PLANETS
08/19/1991 – 03/31/1997 FY97: $0 Total: $281,272
Prin. Invest.: T OWEN
Tech. Officer: HQ/J RAHE
CASE Category: 11 – ASTRONOMY

NAGW 3044 UNIVERSITY OF HAWAII – MANOA **4204**
NAGW-3044/UNIV HAWAII/OBSERVATIONS OF SPACECRAFT TARGETS, UNUSUAL OBJECTS, & OTHER TARGETS
04/24/1992 – 09/30/1997 FY97: $0 Total: $142,000
Prin. Invest.: D J THOLEN
Tech. Officer: HQ/H C BRINTON
CASE Category: 11 – ASTRONOMY

NAGW 3099 UNIVERSITY OF HAWAII – MANOA **4205**
NAGW-3099/UNIV HAWAII/INSTRUMENTATION FOR ACHIEVIN G HIGH ANGULAR RESOLUTION ON THE NASA INFRARED
06/17/1992 – 03/31/1998 FY97: $0 Total: $1,192,060
Prin. Invest.: B SMITH
Tech. Officer: HQ/H C BRINTON
CASE Category: 11 – ASTRONOMY

NAGW 3218 UNIVERSITY OF HAWAII – MANOA **4206**
NAGW-3218/UNIV HAWAII/HIGH RESOLUTION STEREO CAMER A & OMEGA IMAGING SPECTROMETER INVESTIGATIONS
11/02/1992 – 09/30/1997 FY97: $0 Total: $183,000
Prin. Invest.: T B MCCORD
Tech. Officer: HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3281 UNIVERSITY OF HAWAII – MANOA **4207**
NAGW-3281/UNIV HAWAII/ORIGIN OF METEROITE PARENT B ODIES AND THE MOON
12/04/1992 – 09/30/1997 FY97: $0 Total: $1,254,340
Prin. Invest.: K KEIL
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3294 UNIVERSITY OF HAWAII – MANOA **4208**
NAGW-3294/UNIV HAWAII/VOLATILE EVOLUTION
11/27/1992 – 09/30/1997 FY97: $0 Total: $378,000
Prin. Invest.: F P FANALE
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3398 UNIVERSITY OF HAWAII – MANOA **4209**
A DEEP OPTICAL SURVEY OF THE ECLIPTIC
03/09/1993 – 02/28/1997 FY97: $0 Total: $112,500
Prin. Invest.: D JEWITT
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3427 UNIVERSITY OF HAWAII – MANOA **4210**
GROUNDBASED TELESCOOPIC OBSERVATIONS IN SUPPORT OF THE MARS MISSION
02/10/1993 – 10/31/1995 FY97: –$133 Total: $120,559
Prin. Invest.: P LUCEY
Tech. Officer: HQ/H C BRINTON
CASE Category: 11 – ASTRONOMY

NAGW 3493 UNIVERSITY OF HAWAII – MANOA **4211**
DEV. OF AN OPT. MOD. FOR EST. PRI. PRO. RAT. FROM SEA WI. COL. IMA. AND AVHRR CLOUD CLIM.
03/27/1993 – 02/28/1997 FY97: $0 Total: $299,162
Prin. Invest.: R BIDIGARE
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 33 – OCEANOGRAPHY

NAGW 3500 UNIVERSITY OF HAWAII – MANOA **4212**
EVOLUTION OF VOLCANOES AND THEIR SUMMIT CALEDRAS O N VENUS
03/31/1993 – 03/31/1996 FY97: –$6 Total: $50,994
Prin. Invest.: P J MOUGINIS–MARK
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3531 UNIVERSITY OF HAWAII – MANOA **4213**
PLAS. DEFOR. OF VENUS LITH. OVER A DYN. MAN. SYN. OF SATELLITE DATA ANALYSIS WITH
04/22/1993 – 03/31/1996 FY97: $0 Total: $104,306
Prin. Invest.: D BERCOVICI
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3537 UNIVERSITY OF HAWAII – MANOA **4214**
LUNAR SCIENCE STRATEGIES AND MGMT OF THE LUNAR EXP LORATION SCIENCE WORKING GROUP
04/22/1993 – 09/30/1995 FY97: –$37 Total: $94,660
Prin. Invest.: G J TAYLOR
Tech. Officer: HQ/C PILCHER
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3684 UNIVERSITY OF HAWAII – MANOA **4215**
LAVA FLOW DYNAMICS
08/06/1993 – 02/29/1996 FY97: $0 Total: $148,500
Prin. Invest.: G J TAYLOR
Tech. Officer: HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3721 UNIVERSITY OF HAWAII – MANOA **4216**
FORMATION AND HISTORY OF AEROSOLS IN TROPOSPHERIC AND STRATOSPHERIC VOLCANIC ERUPTIONCLOUDS
09/10/1993 – 07/31/1997 FY97: $0 Total: $272,849
Prin. Invest.: S SELF
Tech. Officer: HQ/M BALTUCK, HQ/E PAYLOR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3766 UNIVERSITY OF HAWAII – MANOA **4217**
REMOTE MARINE AEROSOL: A CHARACTERIZATION OF PHYS ICAL CHEMICAL AND OPTICAL PROPERTIES
09/29/1993 – 09/30/1997 FY97: $0 Total: $460,232
Prin. Invest.: A CLARKE
Tech. Officer: HQ/J T SUTTLES, HQ/A C JANETOS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3812 UNIVERSITY OF HAWAII – MANOA **4218**
NAGW-3812/UNIV OF HAWAII/REMOTE SENSING DATA TO GI S STUDIES OF LAND USE, LAND COVER AND VEGETATION
11/05/1993 – 08/14/1996 FY97: -$18 Total: $149,982
Prin. Invest.: D M ISHII, P MOUGINIS–MARK, M MC GRANAGHAN
Tech. Officer: HQ/D M BUTLER, HQ/A J TUYAHOV
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3875 UNIVERSITY OF HAWAII – MANOA **4219**
OPERATION OF THE UNIV OF HAWAII 2.2 METER TELESCOPE AT MAUNA KEA OBS
02/17/1994 – 10/31/1996 FY97: $0 Total: $651,200
Prin. Invest.: D HALL
Tech. Officer: HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NAGW 3900 UNIVERSITY OF HAWAII – MANOA **4220**
SUBMILLIMETER IMAGING OF DUST AROUND MAIN SEQUENCE
03/23/1994 – 03/31/1997 FY97: $0 Total: $105,000
Prin. Invest.: D JEWITT
Tech. Officer: HQ/J RAHE
CASE Category: 11 – ASTRONOMY

NAGW 3918 UNIVERSITY OF HAWAII – MANOA **4221**
NAGW-3918/B UNIV. OF HAWAII "A SYSTEM FOR ACQ. AN D DISSEM. OF EARTH OBS. DATA VIA.." 36 MO MULTI–
04/11/1994 – 01/14/1997 FY97: $0 Total: $538,544
Prin. Invest.: T N NELSON
Tech. Officer: HQ/J C DODGE, HQ/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3938 UNIVERSITY OF HAWAII – MANOA **4222**
NAGW-3938/B UNIV. OF HAWAII "JOINT US/JAPAN OBS. W ITH THE INFRARED SPACE.." 12–MONTHAWARD
04/14/1994 – 01/14/1997 FY97: $0 Total: $255,000
Prin. Invest.: D B SANDERS
Tech. Officer: HQ/L J CAROFF
CASE Category: 11 – ASTRONOMY

NAGW 3973 UNIVERSITY OF HAWAII – MANOA **4223**
SUBMILLIMETER CONTINUUM OBSERVATIONS OF COMETS
05/03/1994 – 09/30/1997 FY97: $0 Total: $118,400
Prin. Invest.: D JEWITT
Tech. Officer: HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NAGW 4190 UNIVERSITY OF HAWAII – MANOA **4224**
DEVELOPING A STAND ALONE SUN PHOTOMETER FOR USE ON SHIPS AND BUOYS
10/31/1994 – 04/30/1997 FY97: $0 Total: $142,505
Prin. Invest.: J PORTER
Tech. Officer: HQ/A C JANETOS
CASE Category: 33 – OCEANOGRAPHY

NAGW 4601 UNIVERSITY OF HAWAII – MANOA **4225**
OPTICAL STUDIES OF ACTIVE COMETS
08/11/1995 – 03/31/1997 FY97: $0 Total: $100,000
Prin. Invest.: D JEWITT
Tech. Officer: HQ/E BARKER
CASE Category: 11 – ASTRONOMY

NAGW 4650 UNIVERSITY OF HAWAII – MANOA **4226**
HIGH ANGULAR RESOLUTION OBSERVATIONS OF PROTO PLANETARY DISKS WITH ADAPTIVE OPTICS
08/02/1995 – 09/30/1997 FY97: $0 Total: $110,000
Prin. Invest.: F RODDIER
Tech. Officer: HQ/P ROGERS
CASE Category: 11 – ASTRONOMY

NAGW 4697 UNIVERSITY OF HAWAII – MANOA **4227**
ATMOSPHERIC DELAY CORRECTIONS FOR RADAR INTERFEROM ETRY: DEVELOPMENT AND TESTING OF AGPS–BASED
08/16/1995 – 07/31/1997 FY97: $0 Total: $280,000
Prin. Invest.: M BEVIS
Tech. Officer: HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4874 UNIVERSITY OF HAWAII – MANOA **4228**
THE COMPOSITION OF THE LUNAR CRUST
11/30/1995 – 12/31/1997 FY97: $0 Total: $99,950
Prin. Invest.: P G LUCEY
Tech. Officer: HQ/J M BOYCE, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 4886 UNIVERSITY OF HAWAII – MANOA **4229**
REMOTE SENSING STUDIES OF THE LUNAR CRUST
01/01/1996 – 12/31/1997 FY97: $0 Total: $50,000
Prin. Invest.: B R HAWKE
Tech. Officer: HQ/J M BOYCE, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 4889 UNIVERSITY OF HAWAII – MANOA **4230**
SOLAR SYSTEM BEYOND NEPTUNE
12/07/1995 – 12/31/1999 FY97: $0 Total: $54,495
Prin. Invest.: D JEWITT
Tech. Officer: HQ/P G ROGERS
CASE Category: 11 – ASTRONOMY

NAGW 4909 UNIVERSITY OF HAWAII – MANOA **4231**
CALIBRATION OF CLEMENTINE NEAR–INFRARED CAMERA
02/05/1996 – 12/31/1996 FY97: $0 Total: $75,000
Prin. Invest.: P LUCEY
Tech. Officer: HQ/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 4918 UNIVERSITY OF HAWAII – MANOA **4232**
KUIPER BELT OBJECTS ALOND THE PLUTO EXPRESS PATH
02/06/1996 – 01/31/1999 FY97: $0 Total: $20,000
Prin. Invest.: D C JEWITT
Tech. Officer: HQ/E BARKER, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 4933 UNIVERSITY OF HAWAII – MANOA **4233**
A MULTI–SENSOR STUDY OF CONVERGENT FRONTS IN THE N ORTH PACIFIC
02/13/1996 – 09/30/1997 FY97: $0 Total: $50,352
Prin. Invest.: P FLAMENT
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 33 – OCEANOGRAPHY

NAGW 4935 UNIVERSITY OF HAWAII – MANOA **4234**
ADAPTIVE OPTICS IMAGING OF SOLAR SYSTEM OBJECTS
02/13/1996 – 12/31/1998 FY97: $0 Total: $66,000
Prin. Invest.: F J RODDIER
Tech. Officer: HQ/E BARKER, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 4940 UNIVERSITY OF HAWAII – MANOA **4235**
APPLICATIONS OF SARS TO URBAN CLIMATOLOGY
02/13/1996 – 09/30/1997 FY97: $0 Total: $58,362
Prin. Invest.: B M DOUSSETT
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4955 UNIVERSITY OF HAWAII – MANOA **4236**
STUDIES OF THE PLUTO–CHARON SYSTEM
03/20/1996 – 09/30/1997 FY97: $0 Total: $21,363
Prin. Invest.: D J THOLEN
Tech. Officer: HQ/E BAKER, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 4965 UNIVERSITY OF HAWAII – MANOA **4237**
MAPPING HAZARDOUS VOLCANOES WITH RADARSAT AND OTHE R ORBITAL RADARS
02/28/1996 – 09/30/1997 FY97: $0 Total: $16,000
Prin. Invest.: P MOUGINIS–MARK
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 5015 UNIVERSITY OF HAWAII – MANOA **4238**
DISTNAT COMETS IN THE EARLY SOLAR SYSTEM
03/22/1996 – 03/31/1997 FY97: $0 Total: $64,979
Prin. Invest.: K J MEECH
Tech. Officer: HQ/E BAKER, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 5250 UNIVERSITY OF HAWAII – MANOA **4239**
UNDERSTANDING SEASONAL–TO–INTERANNUAL FLUCTUATIONS OF THE NORTH PACIFIC SUBTROPICAL GYRE
10/22/1996 – 12/30/1997 FY97: $147,007 Total: $147,007
Prin. Invest.: B QUI
Tech. Officer: HQ/G ASRAR, HQ/R C HARRISS
CASE Category: 33 – OCEANOGRAPHY

NAS 2 14059 UNIVERSITY OF HAWAII – MANOA **4240**
CONNECTIVITY SERVICE BETWEEN SCIENCE COMMUNITIES A T NASA AND PACIFIC RIM NATIONS THRU PACCOM CONSOR
05/10/1994 – 09/30/1996 FY97: $16,512 Total: $1,714,927
Prin. Invest.: T N NEILSON
Tech. Officer: ARC/M MODIN, ARC/M LEON
CASE Category: 22 – COMPUTER SCIENCE

NAS 5 30951 UNIVERSITY OF HAWAII – MANOA **4241**
INTERPRETATION OF GALILEO PROBE MASS SPECTROMETER DATA
01/15/1991 – 04/30/1998 FY97: $64,000 Total: $280,168
Prin. Invest.: T C OWENS
Tech. Officer: GSFC/J R RICHARDS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 31722 UNIVERSITY OF HAWAII – MANOA **4242**
EOS INVESTIGATION "GLOBAL HYDROLOGIC PROCESSES & CLIMATE"
10/08/1991 – 12/31/1997 FY97: $20,000 Total: $247,000
Prin. Invest.: R LUKAS
Tech. Officer: GSFC/W LAU
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 5 32354 UNIVERSITY OF HAWAII – MANOA **4243**
LASER RANGING OPERATIONS & MAINTENANCE
03/03/1994 – 03/02/1999 FY97: $420,000 Total: $2,313,094
Prin. Invest.: D HALL
Tech. Officer: GSFC/J MCGARRY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAS 5 97136 UNIVERSITY OF HAWAII – MANOA **4244**
MEASUREMENTS OF AEROSOL, OCEAN & SKY PROPERTIES AT THE HOT SITE IN THE CENTRAL PACIFIC
09/29/1997 – 09/29/1998 FY97: $162,699 Total: $162,699
Prin. Invest.: J PORTER
Tech. Officer: GSFC/C MCLAIN
CASE Category: 33 – OCEANOGRAPHY

NASW 5062 UNIVERSITY OF HAWAII – MANOA **4245**
OPERATION AND MAINTENANCE OF THE INFRARED TELESCOPE FACILITY
01/31/1996 – 12/31/1996 FY97: $3,476,533 Total: $5,186,140
Prin. Invest.: D N HALL, R JOSEPH
Tech. Officer: HQ/E BARKER
CASE Category: 11 – ASTRONOMY

NCC 2 5194 UNIVERSITY OF HAWAII – MANOA **4246**
PHOTON–DOMINATED CIRCUMSTELLAR GAS
11/13/1996 – 12/31/1998 FY97: $12,000 Total: $12,000
Prin. Invest.: J L HORA
Tech. Officer: ARC/D HOLLENBACH
CASE Category: 11 – ASTRONOMY

NGT 30104 UNIVERSITY OF HAWAII – MANOA **4247**
NGT–30104/UNIV HAWAII/GLOBAL CHANGE FELLOWSHIP PROGRAM
11/02/1992 – 08/31/1996 FY97: –$2 Total: $65,998
Prin. Invest.: J R CHRISTIAN
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 30312 UNIVERSITY OF HAWAII – MANOA **4248**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/04/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: F JIN
Tech. Officer: HQ/MBALTUCK, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 40020 UNIVERSITY OF HAWAII – MANOA **4249**
NGT–40020/UNIV OF HAWAII/NAT'L SPACE GRANT COLLGE AND FELLOWSHIP PROGRAM
03/07/1990 – 09/30/1997 FY97: $0 Total: $2,154,000
Prin. Invest.: P MOUGINIS–MARK
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51124 UNIVERSITY OF HAWAII – MANOA **4250**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/05/1993 – 07/31/1996 FY97: –$312 Total: $65,688
Prin. Invest.: B LABONTE
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51286 UNIVERSITY OF HAWAII – MANOA **4251**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/28/1994 – 09/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: B J LABONTE
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51325 UNIVERSITY OF HAWAII – MANOA **4252**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/06/1994 – 07/31/1996 FY97: –$22,259 Total: $43,741
Prin. Invest.: D JEWITT
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51645 UNIVERSITY OF HAWAII – MANOA **4253**
GRADUATE STUDENT RESEARCHERS PROGRAM
10/18/1996 – 09/30/1997 FY97: $22,000 Total: $22,000
Prin. Invest.: J BARNES
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51652 UNIVERSITY OF HAWAII – MANOA **4254**
GRAD STUD RES PROG
08/20/1996 – 09/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: K KEIL
Tech. Officer: HQ/D HOLLAND
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 5 30047 UNIVERSITY OF HAWAII – MANOA **4255**
THIRD YEAR FUNDING: "EL NINO–SOUTHERN OSCILLATION BY GLOBAL CLIMATE CHANGE"GSRP RECIPIENT:JEFF DRBO
09/04/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: F JIN*Prin. Invest.:* NONE
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40021 UNIVERSITY OF HAWAII – MANOA **4256**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
02/13/1997 – 01/31/1998 FY97: $330,000 Total: $330,000
Prin. Invest.: P MOUGINIS–MARK
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50089 UNIVERSITY OF HAWAII – MANOA **4257**
GRADUATE STUDENT RESEARCHERS PROGRAM – STUDENT: J
08/27/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D SANDERS
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 1 1764 UNIVERSITY OF HAWAII SYSTEM **4258**
AEROSOL PHYSICOCHEMISTRY AND CYCLING IN THE TROPOS PHERE: MEASUREMENTS FOR PEM–TROPICS
09/29/1995 – 10/31/1998 FY97: $27,000 Total: $218,416
Prin. Invest.: D D CLARKE
Tech. Officer: LARC/J M HOELL, JR., LARC/R J BENDURA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1850 UNIVERSITY OF HAWAII SYSTEM **4259**
STRESS RECOVERY AND ERROR ESTIMATION FOR 3–D SHELL STRUCTURES
08/01/1996 – 07/31/1998 FY97: $62,246 Total: $72,246
Prin. Invest.: H R RIGGS
Tech. Officer: LARC/J M HOUSNER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1912 UNIVERSITY OF HAWAII SYSTEM **4260**
GAS–PHASE COMBUSTION SYNTHESIS OF METAL AND CERAMI C NANPARTICLES
07/09/1996 – 06/24/2000 FY97: $20,665 Total: $32,613
Prin. Invest.: B H CHAO
Tech. Officer: LERC/S GOKOGLU
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 2912 UNIVERSITY OF HAWAII SYSTEM **4261**
A DEEP HRI SURVEY
03/14/1995 – 03/31/1997 FY97: $0 Total: $9,828
Prin. Invest.: E HU
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2914 UNIVERSITY OF HAWAII SYSTEM **4262**
X–RAY GAS TEMPERATURES IN THE ARC CLUSTERS MS0440 + 204 AND MS0302 + 1658
03/21/1995 – 03/31/1997 FY97: $0 Total: $15,000
Prin. Invest.: D GLOIA
Tech. Officer: GSFC/D WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2938 UNIVERSITY OF HAWAII SYSTEM **4263**
ARCHITECTURE AND IMPLEMENTATION CONSIDERATIONS OF A HIGH–SPEED VITERBI DECODER FOR A REED MULLER SUB
05/10/1995 – 05/14/1997 FY97: $96,400 Total: $265,400
Prin. Invest.: S LIN, G UEHARA
Tech. Officer: GSFC/W H MILLER, GSFC/J C MORAKIS
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 3625 UNIVERSITY OF HAWAII SYSTEM **4264**
SPECTRAL STUDIES OF POSSIBLE ASTEROIDAL MATERIALS
02/12/1997 – 01/31/1998 FY97: $58,500 Total: $58,500
Prin. Invest.: J F BELL
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3635 UNIVERSITY OF HAWAII SYSTEM **4265**
REMOTE SENSING AND GEOLOGIC STUDIES OF PLANETARY C
02/12/1997 – 10/31/1997 FY97: $70,000 Total: $70,000
Prin. Invest.: B R HAWKE
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3731 UNIVERSITY OF HAWAII SYSTEM **4266**
ADAPTIVE OPTICS IMAGING OF SOLAR SYSTEM OBJECTS
03/03/1997 – 12/31/1997 FY97: $66,000 Total: $66,000
Prin. Invest.: D J RODDIER
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 3766 UNIVERSITY OF HAWAII SYSTEM **4267**
MINERALOGICAL MAPPING OF THE MOON
02/20/1997 – 09/30/1997 FY97: $35,000 Total: $35,000
Prin. Invest.: P G LUCEY
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3782 UNIVERSITY OF HAWAII SYSTEM **4268**
SHARING DISCOVERIES IN PLANETARY GEOSCIENCE ON THE –ROM
02/25/1997 – 02/28/1998 FY97: $63,340 Total: $63,340
Prin. Invest.: G TAYLOR
Tech. Officer: GSFC/D NAVA
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 4024 UNIVERSITY OF HAWAII SYSTEM **4269**
APPLICATIONS OF SARS TO URBAN CLIMATLOGY: ESTIMATI MOISTURE AVAILABILITY FROM RADARSATIMAGES OF THE
03/17/1997 – 01/31/1998 FY97: $47,453 Total: $47,453
Prin. Invest.: B M DOUSSET
Tech. Officer: GSFC/R H THOMAS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4127 UNIVERSITY OF HAWAII SYSTEM **4270**
GEOMORPHOLOGY OF VOLCANOES ON MARS AND IO
03/24/1997 – 10/31/1997 FY97: $120,000 Total: $120,000
Prin. Invest.: P MOUGINIS–MARK
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4133 UNIVERSITY OF HAWAII SYSTEM **4271**
INFRARED SPECTRAL STUDIES OF ASTEROID
03/13/1997 – 12/31/1997 FY97: $24,500 Total: $24,500
Prin. Invest.: D F BELL
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 4143 UNIVERSITY OF HAWAII SYSTEM **4272**
A MULTI–SENSOR STUDY OF CONVERGENT FRONTS IN THE N
04/14/1997 – 12/31/1997 FY97: $42,189 Total: $42,189
Prin. Invest.: P FLAMENT
Tech. Officer: GSFC/R H THOMAS
CASE Category: 33 – OCEANOGRAPHY

NAG 5 4150 UNIVERSITY OF HAWAII SYSTEM **4273**
VOLATILE EVOLUTION
04/02/1997 – 10/31/1997 FY97: $140,000 Total: $140,000
Prin. Invest.: F P FANALE
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4212 UNIVERSITY OF HAWAII SYSTEM **4274**
ORIGIN OF METEORITE PARENT BODIES AND THE MOON
03/19/1997 – 03/31/1998 FY97: $323,000 Total: $323,000
Prin. Invest.: D KEIL
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 – CHEMISTRY

NAG 5 4223 UNIVERSITY OF HAWAII SYSTEM **4275**
OBSERVATION AND ANALYSIS OF JOVIAN AND SATURNIAN S
03/26/1997 – 03/14/1998 FY97: $18,000 Total: $18,000
Prin. Invest.: D J THOLEN
Tech. Officer: GSFC/W HUEBNER
CASE Category: 11 – ASTRONOMY

NAG 5 4227 UNIVERSITY OF HAWAII SYSTEM **4276**
HIGH ANGULAR RESOLUTION OBSERVATIONS OF PROTOPLANE ADAPTIVE OPTICS
03/24/1997 – 04/30/1998 FY97: $55,000 Total: $55,000
Prin. Invest.: D J RODDIER
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4249 UNIVERSITY OF HAWAII SYSTEM **4277**
KUIPER BELT OBJECTS ALONG THE PLUTO–EXPRESS PATH
03/24/1997 – 01/31/1998 FY97: $20,000 Total: $20,000
Prin. Invest.: D C JEWITT
Tech. Officer: GSFC/J BERHGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 4257 UNIVERSITY OF HAWAII SYSTEM **4278**
MAPPING HAZARDOUS VOLCANOES WITH RADARSAT AND OTHE
04/10/1997 – 02/28/1998 FY97: $17,000 Total: $17,000
Prin. Invest.: P MOUGINIS–MARK
Tech. Officer: GSFC/R H THOMAS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4344 UNIVERSITY OF HAWAII SYSTEM **4279**
SPECTROPHOTOMETRIC STUDIES OF MARS USING THE HIGH– CAMERA ON THE SOVIET MARS 96 MISSION
04/17/1997 – 12/31/1997 FY97: $20,000 Total: $20,000
Prin. Invest.: D B MCCORD
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4355 UNIVERSITY OF HAWAII SYSTEM **4280**
OPERATION OF THE UNIVERSITY OF HAWAII 2.2–M TELESC
04/17/1997 – 02/28/1998 FY97: $110,000 Total: $110,000
Prin. Invest.: P HALL
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 4395 UNIVERSITY OF HAWAII SYSTEM **4281**
A GLOBAL ASSESSMENT OF ACTIVE VOLCANISM, VOLCANIC INPUTS TO THE ATMOSPHERE FROM THE EARTH OBSERVING
05/06/1997 – 12/31/1997 FY97: $355,000 Total: $355,000
Prin. Invest.: P J MOUGINIS–MARK
Tech. Officer: GSFC/M BALTUCK
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 4443 UNIVERSITY OF HAWAII SYSTEM **4282**
SUPPORT OF THE 60TH METEOROLOGICAL SOCIETY MEETING MAUI HAWAII
04/23/1997 – 12/31/1997 FY97: $21,000 Total: $21,000
Prin. Invest.: D KEIL
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4495 UNIVERSITY OF HAWAII SYSTEM **4283**
DISTANT COMETS IN THE EARLY SOLAR SYSTEM
05/06/1997 – 03/31/1998 FY97: $67,854 Total: $67,854
Prin. Invest.: D J MEECH
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 4524 UNIVERSITY OF HAWAII SYSTEM **4284**
OBSERVATIONS OF PLANET–CROSSING ASTEROIDS
05/28/1997 – 02/28/1998 FY97: $20,000 Total: $20,000
Prin. Invest.: D J THOLEN
Tech. Officer: GSFC/W HUEBNER
CASE Category: 11 – ASTRONOMY

NAG 5 4631 UNIVERSITY OF HAWAII SYSTEM **4285**
DK UMA, A STAR ON THE ASCENT
05/21/1997 – 05/31/1998 FY97: $17,480 Total: $17,480
Prin. Invest.: T SIMON
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 4828 UNIVERSITY OF HAWAII SYSTEM **4286**
X–RAY TEMPERATURES FOR A COMPLETE SAMPLE OF DISTAN
06/20/1997 – 06/30/1998 FY97: $18,900 Total: $18,900
Prin. Invest.: J HENRY
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 4941 UNIVERSITY OF HAWAII SYSTEM **4287**
OBSERVATIONAL INVESTIGATION OF THE SOLAR INTERIOR
06/23/1997 – 05/31/1998 FY97: $250,000 Total: $250,000
Prin. Invest.: B J LABONTE
Tech. Officer: GSFC/W WGNER
CASE Category: 13 – PHYSICS

NAG 5 6168 UNIVERSITY OF HAWAII SYSTEM **4288**
IS THERE ONLY ONE STELLAR CORONAL ACTIVITY–AGE REL
08/01/1997 – 07/31/1998 FY97: $4,600 Total: $4,600
Prin. Invest.: T SIMON
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 6220 UNIVERSITY OF HAWAII SYSTEM **4289**
OPEN ACCESS TO VECTOR MAGNETOGRAMS FROM MEES SOLAR
08/18/1997 – 07/31/1998 FY97: $10,800 Total: $10,800
Prin. Invest.: B J LABONTE
Tech. Officer: GSFC/J WILLETT
CASE Category: 11 – ASTRONOMY

NAGW 4715 UNIVERSITY OF HAWAII SYSTEM **4290**
ASTEROID SUBNODE OF SMALL BODIES NODE OF PLANETARY DATA SYSTEM
09/08/1995 – 10/31/1996 FY97: $0 Total: $22,700
Prin. Invest.: D THOLEN
Tech. Officer: HQ/J Y BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAGW 4816 UNIVERSITY OF HAWAII SYSTEM **4291**
ANALYSIS OF MAUNA KEA IMAGING OF COMET P/SHOEMAKER –LEVY 9
10/03/1995 – 09/30/1997 FY97: $0 Total: $25,000
Prin. Invest.: D JEWITT
Tech. Officer: HQ/E BARKER
CASE Category: 11 – ASTRONOMY

NGT 51387 UNIVERSITY OF HAWAII SYSTEM **4292**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/15/1995 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: D B SANDERS
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 5 50017 UNIVERSITY OF HAWAII SYSTEM **4293**
THE LINK BETWEEN INTERACTIONS, INFRARED EMISSION A OF GALAXIES: A DETAILED STUDY OF ACOMPLETE SAMP
07/14/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J E BARMES
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

IDAHO

NAG 5 6090 BOISE STATE UNIVERSITY **4294**
POSSIBLE IMPACT ORIGIN OF SOME TERRESTRIAL DIAMICT
08/13/1997 – 07/14/1998 FY97: $41,691 Total: $41,691
Prin. Invest.: V OBERBECK
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 5067 BOISE STATE UNIVERSITY **4295**
POSSIBLE IMPACT ORIGIN OF SOME TERRESTRIAL DIAMICT ITES
05/20/1996 – 04/30/1997 FY97: $0 Total: $37,000
Prin. Invest.: V OBERBECK
Tech. Officer: HQ/M MEYER, HQ/P ROGERS
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 269 IDAHO STATE UNIVERSITY **4296**
JOVE
12/03/1992 – 11/16/1996 FY97: –$11,160 Total: $69,450
Prin. Invest.: S JOHNSON, R RODRIGUAZ
Tech. Officer: MSFC/F SIX
CASE Category: 11 – ASTRONOMY

NAG 1 1693 UNIVERSITY OF IDAHO **4297**
LOW DENSITY TITANIUM ALLOYS USING MECHANICAL ALLOY ING AND VAPOR DEPOSITION
04/07/1995 – 04/06/1996 FY97: –$1 Total: $50,000
Prin. Invest.: F H FROES, C SURYANARAYANA
Tech. Officer: LARC/T A WALLACE, LARC/W D BREWER
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 2 961 UNIVERSITY OF IDAHO **4298**
GALILEO DOPPLER WIND EXPERIMENT
02/06/1995 – 09/30/1997 FY97: $11,211 Total: $88,547
Prin. Invest.: D G ATKINSON
Tech. Officer: ARC/L E LASHER, ARC/R E YOUNG
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 4 116 UNIVERSITY OF IDAHO **4299**
EAGLES IN SPACE PROGRAM EAGLES IN SPACE PROGRAM
02/06/1997 – 01/31/1998 FY97: $15,642 Total: $15,642
Prin. Invest.: I BOND
Tech. Officer: DFRC/L DUKE, II
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 4747 UNIVERSITY OF IDAHO **4300**
EARTH SYSTEM FIELD RESEARCH EXPERIENCE FOR UNDERGR
06/18/1997 – 05/31/1998 FY97: $75,000 Total: $75,000
Prin. Invest.: M MILLER
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 2 862 UNIVERSITY OF IDAHO **4301**
DEVELOPMENT OF SENSORY RECEPTORS IN SKELETAL MUSCL E
06/21/1994 – 04/30/1998 FY97: $0 Total: $193,299
Prin. Invest.: M E DESANTIS
Tech. Officer: ARC/D A REIS–BUBENHEIM, ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 2 914 UNIVERSITY OF IDAHO **4302**
SPARK: STUDENT PROGRAM FOR AERONATUCIS RESOURCES F OR KNOWLEDGE
07/26/1995 – 10/14/1997 FY97: $89,003 Total: $240,166
Prin. Invest.: D H ATKINSON
Tech. Officer: ARC/M J LEON, ARC/W C LIKENS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 10003 UNIVERSITY OF IDAHO **4303**
IDAHO STAR (STUDENT TEAMS FOR AEROSPACE RESEARCH)
06/16/1993 – 03/31/1997 FY97: $0 Total: $82,500
Prin. Invest.: D H ATKINSON
Tech. Officer: HQ/D V GALLAWAY
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 40038 UNIVERSITY OF IDAHO **4304**
NGT–40038/UNIV IDAHO/NAT'L SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
05/29/1991 – 09/30/1997 FY97: $0 Total: $1,219,838
Prin. Invest.: T ARMSTRONG
Tech. Officer: HQ/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40006 UNIVERSITY OF IDAHO **4305**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM
12/10/1996 – 08/31/1997 FY97: $82,703 Total: $82,703
Prin. Invest.: R GILL
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40056 UNIVERSITY OF IDAHO **4306**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
02/12/1997 – 02/28/1998 FY97: $238,750 Total: $238,750
Prin. Invest.: R GILL
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

ILLINOIS

NCC 1 167 ILLINOIS INSTITUTE OF TECHNOLOGY **4307**
CONTROLLED EXPERIMENTS ON INSTABILITIES AND TRANSITION TO TURBULENCE ON CONESAT MACH 3.5 & 8
08/04/1992 – 12/31/1997 FY97: $9,960 Total: $281,229
Prin. Invest.: T C CORKE
Tech. Officer: LARC/S P WILKINSON
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 90179 ILLINOIS INSTITUTE OF TECHNOLOGY **4308**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/27/1993 – 08/14/1996 FY97: –$12,000 Total: $36,000
Prin. Invest.: J ORNELAS
Tech. Officer: HQ/D RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90273 ILLINOIS INSTITUTE OF TECHNOLOGY **4309**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
12/16/1994 – 08/14/1996 FY97: $0 Total: $72,000
Prin. Invest.: I DOBBINS
Tech. Officer: HQ/M A JONES
CASE Category: 22 – COMPUTER SCIENCE

NGT 5 90046 ILLINOIS INSTITUTE OF TECHNOLOGY **4310**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
02/04/1997 – 08/14/1997 FY97: $48,000 Total: $48,000
Prin. Invest.: I DOBBINS
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 46 – MECHANICAL ENGR

NAG 8 1262 ILLINOIS STATE UNIVERSITY **4311**
RESEARCH JOVE
01/17/1997 – 08/31/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: D HOLLAND
Tech. Officer: MSFC/J F DOWNDY, MSFC/J R PRUITT
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 1 1654 NORTHWESTERN UNIVERSITY **4312**
EFFECTS OF PHYSICAL AND CHEMICAL AGING ON LONGTERM BEHAVIOR OF POLYMER MATRIX COMPOSITES — MY1/3
01/05/1995 – 01/04/1998 FY97: $58,978 Total: $185,419
Prin. Invest.: L C BRINSON
Tech. Officer: LARC/T S GATES
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1813 NORTHWESTERN UNIVERSITY **4313**
AN ULTRASONICS TECHNIQUE TO DETERMINE THE RESIDUAL STRENGTH OF ADHESIVE BONDS
02/28/1996 – 02/28/1998 FY97: $42,167 Total: $79,167
Prin. Invest.: J D ACHENBACH, J S STECKENRIDER
Tech. Officer: LARC/W P WINFREE, LARC/W T YOST
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 2 846 NORTHWESTERN UNIVERSITY **4314**
ADAPTIVE LOAD BALANCING & DATA PLACEMENT IN DISK A RRAYS
06/10/1993 – 05/14/1997 FY97: $0 Total: $293,647
Prin. Invest.: P SCHEUERMANN
Tech. Officer: ARC/J R LEKASHMAN
CASE Category: 22 – COMPUTER SCIENCE

NAG 3 747 NORTHWESTERN UNIVERSITY **4315**
THEORY OF SOLIDISCATION
10/15/1986 – 04/18/1996 FY97: $0 Total: $1,159,000
Prin. Invest.: S H DAVIS
Tech. Officer: LERC/A CHAIT
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1405 NORTHWESTERN UNIVERSITY **4316**
INTERACTIONS BETWEEN SOLIDIFICATION & COMPOSITIONA L CONVEC-TION IN ALLOYS
12/30/1992 – 12/31/1996 FY97: –$49,842 Total: $190,158
Prin. Invest.: M G WORSTER, S H DAVIS
Tech. Officer: LERC/A CHAIT, LERC/M YAO
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1417 NORTHWESTERN UNIVERSITY **4317**
MICROGRAVITY MATERIALS SCIENCE: RESEARCH & FLIGHT EXPERIMENT OPPORTUNITIES
12/15/1992 – 12/14/1996 FY97: $0 Total: $480,000
Prin. Invest.: P W VORHEES
Tech. Officer: LERC/T K GLASGOW, LERC/R ASTHANA
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1604 NORTHWESTERN UNIVERSITY **4318**
STRUCTURE & DYNAMICS OF DIFFUSION FLAMES IN MICROGRAVITY
05/23/1994 – 05/21/1998 FY97: $85,000 Total: $323,000
Prin. Invest.: M MATALON
Tech. Officer: LERC/H D ROSS
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1608 NORTHWESTERN UNIVERSITY **4319**
FILTRATION COMBUSTION FOR MICROGRAVITY APPLICATION ; (1) SMOL-DERING (2) COMBUSTION SYNTHESIS ADV MAT
05/24/1994 – 05/31/1998 FY97: $120,000 Total: $462,000
Prin. Invest.: B J MATKOWSKY
Tech. Officer: LERC/S A GOKOGLU
CASE Category: 43 – CHEMICAL ENGR

NAG 3 1617 NORTHWESTERN UNIVERSITY **4320**
NONLINEAR DYNAMICS AND NUCLEATION KINETICS IN NEAR CRITICAL LIQUIDS
06/16/1994 – 06/15/1996 FY97: $0 Total: $100,000
Prin. Invest.: A Z PATASHINSKI
Tech. Officer: LERC/R A WILKINSON, LERC/H K NAHRA
CASE Category: 13 – PHYSICS

NAG 3 1636 NORTHWESTERN UNIVERSITY **4321**
FLUID MECHANICS OF CAPILLARY ELASTIC INSTABILITIES IN THE MICROGRAVITY ENVIRONMENT
06/29/1994 – 09/28/1996 FY97: $0 Total: $130,000
Prin. Invest.: J B GROTBERG, D C HALPERN
Tech. Officer: LERC/D F CHAO
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1737 NORTHWESTERN UNIVERSITY **4322**
THEORY OF SOLIDIFICATION
04/18/1995 – 05/31/2000 FY97: $150,000 Total: $454,000
Prin. Invest.: S H DAVIS
Tech. Officer: LERC/ACHART
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1823 NORTHWESTERN UNIVERSITY **4323**
COARSENING IN SOLID–LIQUID MIXTURES
04/01/1996 – 03/31/1999 FY97: $223,048 Total: $442,460
Prin. Invest.: P W VOORHEES
Tech. Officer: LERC/T K GLASGOW
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1855 NORTHWESTERN UNIVERSITY **4324**
CONTROLL OF FLOWING LIQUID FILMS BY ELECTROSTATIC FIELDS IN SPACE
04/26/1996 – 05/31/2000 FY97: $70,000 Total: $190,000
Prin. Invest.: S G BANKOFF, R A SCHLUTER, M JMIKSIS
Tech. Officer: LERC/R A WILKINSON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1863 NORTHWESTERN UNIVERSITY **4325**
COMBUSTION OF ROTATING SPHERICAL PREMIXED AND DIFF USION FLAMES IN MICROGRAVITY
07/02/1996 – 06/30/2000 FY97: $84,998 Total: $147,998
Prin. Invest.: S H SOHRAB
Tech. Officer: LERC/N D PILTCH
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1892 NORTHWESTERN UNIVERSITY **4326**
THE MICROMECHANICS OF THE MOVING CONTACT LINE
06/01/1996 – 05/31/2000 FY97: $47,000 Total: $127,000
Prin. Invest.: S LICHTER
Tech. Officer: LERC/M WEISLOGEL
CASE Category: 13 – PHYSICS

NAG 3 1932 NORTHWESTERN UNIVERSITY **4327**
NONLINEAR RELAXATION AND FLUCTUATIONS IN A NON–EQU ILIBRIUM NEAR CRITICAL LIQ WITH A TEMP GRADIENT
07/29/1996 – 07/31/2000 FY97: $23,000 Total: $90,999
Prin. Invest.: A Z PATASHINSKI, G A ZIMMERLI
Tech. Officer: LERC/B S SINGH
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1959 NORTHWESTERN UNIVERSITY **4328**
CAPILLARY–ELASTIC INSTABILITIES IN MICROGRAVITY
08/29/1996 – 08/28/2000 FY97: $0 Total: $95,000
Prin. Invest.: J B GROTBERG, D H HALPERN
Tech. Officer: LERC/D CHAO
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 2003 NORTHWESTERN UNIVERSITY **4329**
GPS GEODETIC MONITORING OF SOUTH AMERICA–NAZCA CON VER-GENCE
07/01/1992 – 01/31/1998 FY97: $30,000 Total: $129,188
Prin. Invest.: S A STEIN
Tech. Officer: GSFC/B G BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 2432 NORTHWESTERN UNIVERSITY **4330**
SMALL SCALE SUBSTRUCTURE WITHIN THE COMA CLUSTER OF GALAXIES
11/12/1993 – 11/30/1997 FY97: $70,000 Total: $280,600
Prin. Invest.: M ULMER
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2716 NORTHWESTERN UNIVERSITY **4331**
THE EXTRAGALACTIC X-RAY BACKGROUND IN 0.2 – 2 KEV RANGE
09/09/1994 – 09/14/1997 FY97: $0 Total: $150,391
Prin. Invest.: D WANG
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2717 NORTHWESTERN UNIVERSITY **4332**
THE SHADOWING EFFECT OF THE GALAXY NGC 4244 ON THE COSMIC X-RAY BACKGROUND ($5,958)
09/07/1994 – 09/14/1997 FY97: $0 Total: $53,077
Prin. Invest.: Q WANG
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2822 NORTHWESTERN UNIVERSITY **4333**
OSSE OBSERVATIONS OF THE DIFFUSE GALACTIC LOW- ENERGY GAMMA-RAY CONTINUUM
12/14/1994 – 12/14/1997 FY97: $0 Total: $168,632
Prin. Invest.: W R PURCELL, NONE
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2826 NORTHWESTERN UNIVERSITY **4334**
OSSE OBSERVATIONS OF GALACTIC BLACK HOLE CANDIDATE S AND THEIR NEUTRON-STAR IMPOSTERS
12/14/1994 – 12/14/1997 FY97: $0 Total: $61,639
Prin. Invest.: D A GRABELSKY
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3125 NORTHWESTERN UNIVERSITY **4335**
CGRO MAPS OF 26 AL USING NEW, IMPROVED TECHNIQUES
10/18/1995 – 10/31/1997 FY97: $0 Total: $92,900
Prin. Invest.: M P ULMER
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3265 NORTHWESTERN UNIVERSITY **4336**
PROMPT OSSE OBSERVATIONS OF BATSE BURST POSITIONS
07/01/1996 – 06/30/1997 FY97: $0 Total: $33,596
Prin. Invest.: S M MATZ
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3396 NORTHWESTERN UNIVERSITY **4337**
X-RAY BURSTS WITH PHOTOSPHERIC EXPANSION: THE MASS OF NEUTRON STARS AND SUPER-EDDINGTON WINDS
09/26/1996 – 09/30/1997 FY97: $0 Total: $44,999
Prin. Invest.: O S MILLER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3414 NORTHWESTERN UNIVERSITY **4338**
A VERY DEEP IMAGE OF THE 30 DORADUS REGION
01/08/1997 – 03/14/1998 FY97: $17,000 Total: $17,000
Prin. Invest.: Q WANG
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 3490 NORTHWESTERN UNIVERSITY **4339**
IMPROVED CGRO MAPS OF 26AL
11/13/1996 – 12/31/1997 FY97: $29,000 Total: $29,000
Prin. Invest.: M P ULMER
Tech. Officer: GSFC/JP NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3583 NORTHWESTERN UNIVERSITY **4340**
HIGH-ENERGY EMISSION IN COSMIC GAMMA-RAY_BURSTS
12/06/1996 – 12/14/1997 FY97: $19,506 Total: $19,506
Prin. Invest.: S M MATZ
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3588 NORTHWESTERN UNIVERSITY **4341**
OSSE SEARCH FOR BURST COUNTERPARTS
12/11/1996 – 12/14/1997 FY97: $25,187 Total: $25,187
Prin. Invest.: S M MATZ
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3673 NORTHWESTERN UNIVERSITY **4342**
GALACTIC DIFFUSE CONTINUUM MAPPING
01/02/1997 – 12/31/1997 FY97: $40,000 Total: $40,000
Prin. Invest.: W R PURCELL
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3816 NORTHWESTERN UNIVERSITY **4343**
OSSE OBSERVATIONS OF THE CARINA REGION OF THE GALA
01/20/1997 – 01/14/1998 FY97: $23,000 Total: $23,000
Prin. Invest.: D A GRABELSKY
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3926 NORTHWESTERN UNIVERSITY **4344**
THE PULSED AND NEBULAR SPECTRA OF PSR B1509-58
02/19/1997 – 02/14/1998 FY97: $19,622 Total: $19,622
Prin. Invest.: S M MATZ
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 4240 NORTHWESTERN UNIVERSITY **4345**
OSSE SKY SURVEY OBSERVATIONS FOR CYCLE 6
04/01/1997 – 04/14/1998 FY97: $7,575 Total: $7,575
Prin. Invest.: W R PURCELL
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 4260 NORTHWESTERN UNIVERSITY **4346**
GRAVITATIONAL RADIATION SOURCES FOR THE LAGOS
04/07/1997 – 12/31/1997 FY97: $35,000 Total: $35,000
Prin. Invest.: D S FINN
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 4354 NORTHWESTERN UNIVERSITY **4347**
MARINER 10 COLOR AND ALBEDO OF MERCURY AND THE MOO
04/24/1997 – 03/31/1998 FY97: $48,438 Total: $48,438
Prin. Invest.: D S ROBINSON
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4632 NORTHWESTERN UNIVERSITY **4348**
A SEARCH FOR PULSED X-RAY EMISSION FROM PSR BO144+
05/21/1997 – 05/31/1998 FY97: $20,562 Total: $20,562
Prin. Invest.: M P ULMER
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 5094 NORTHWESTERN UNIVERSITY **4349**
THE DEVELOPMENT OF A FOCUSING SYSTEM FOR 40–100 KEV X-RAYS
11/22/1996 – 12/31/1997 FY97: $1,020,000 Total: $1,020,000
Prin. Invest.: M P ULMER
Tech. Officer: GSFC/L W GURKIN
CASE Category: 13 – PHYSICS

NAGW 2526 NORTHWESTERN UNIVERSITY **4350**
THEORETICAL STUDIES OF HIGH ENERGY TRANSIENTS
05/29/1991 – 12/31/1995 FY97: $0 Total: $224,186
Prin. Invest.: R E TAAM
Tech. Officer: HQ/G S KUTTER, HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 3615 NORTHWESTERN UNIVERSITY **4351**
MECHANICAL MODULATION OF STRIATED MUSCLE PHENOTYPE
05/26/1993 – 05/31/1997 FY97: $0 Total: $181,729
Prin. Invest.: R S DECKER
Tech. Officer: HQ/T W HALSTEAD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 4274 NORTHWESTERN UNIVERSITY **4352**
GRAVITATIONAL RADIATION SOURCES FOR INTERFEROMETRI C SPACE-BASED DETECTORS
01/31/1995 – 12/31/1997 FY97: –$1 Total: $69,999
Prin. Invest.: L S FINN
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NGT 30244 NORTHWESTERN UNIVERSITY **4353**
GLOBAL CHANGE FELLOWSHIP PROGRAM
10/10/1994 – 08/31/1997 FY97: –$1,988 Total: $42,012
Prin. Invest.: P SCHEUERMANN
Tech. Officer: HQ/E LUCIER, HQ/G ASRAR
CASE Category: 22 – COMPUTER SCIENCE

NGT 51233 NORTHWESTERN UNIVERSITY **4354**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/07/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: J E COLGATE
Tech. Officer: JSC/S GOLDSTEIN
CASE Category: 46 – MECHANICAL ENGR

NGT 51301 NORTHWESTERN UNIVERSITY **4355**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/07/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: J B KETTERSON
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51349 NORTHWESTERN UNIVERSITY **4356**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/08/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: S C BANKOFF
Tech. Officer: HQ/G A LESANE
CASE Category: 46 – MECHANICAL ENGR

NGT 51388 NORTHWESTERN UNIVERSITY **4357**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/30/1995 – 08/31/1998 FY97: –$22,000 Total: $44,000
Prin. Invest.: B J MATKOWSKY
Tech. Officer: HQ/D GLASCO
CASE Category: 21 – MATHEMATICS

NGT 51668 NORTHWESTERN UNIVERSITY **4358**
GRAD STUD RES PROGRAM
08/20/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: M MATHALON
Tech. Officer: HQ/G LESANE
CASE Category: 21 – MATHEMATICS

NGT 70355 NORTHWESTERN UNIVERSITY **4359**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/02/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: T MARKS
Tech. Officer: HQ/D K RUSSELL
CASE Category: 12 – CHEMISTRY

NGT 5 45 NORTHWESTERN UNIVERSITY **4360**
DEVELOPMENT OF ALGAN UV PHOTODETECTORS
06/23/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: M RAZEHI
Tech. Officer: GSFC/M S BURRELL
CASE Category: 49 – ENGINEERING, OTHER

NGT 5 50016 NORTHWESTERN UNIVERSITY **4361**
STUDIES ON SPERICAL DIFFUSION FLAMES IN MICROGRAVITY
07/14/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: M MATALON
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50038 NORTHWESTERN UNIVERSITY **4362**
MELTING AND SPREADING EFFECTS IN SMOLDERING AND
07/14/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: B J MATKOWSKY
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 267 PARKS COLLEGE OF ST. LOUIS UNIVERSITY **4363**
JOVE
02/02/1993 – 05/31/1996 FY97: –$18,999 Total: $68,251
Prin. Invest.: C E MONFORT
Tech. Officer: MSFC/F SIX
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 3120 SOUTHERN ILLINOIS UNIVERSITY – CARBONDALE **4364**
GEOPHYSICAL CHARACTERIZATION OF SOME TERRANES AND THE GEO-PHYSICAL MODELING OF CANDIDATE SUTURE ZONES
10/26/1995 – 10/31/1997 FY97: $20,000 Total: $51,000
Prin. Invest.: D RAVAT
Tech. Officer: GSFC/R A LANGEL, GSFC/P T TAYLOR
CASE Category: 32 – GEOLOGICAL SCIENCE

NCC 2 5122 SOUTHERN ILLINOIS UNIVERSITY – CARBONDALE **4365**
MATHEMATICAL MODELING OF ADSORPTION COLUMNS FOR RE MOVAL OF MULTIPLE CONTA
03/17/1995 – 05/15/1997 FY97: $0 Total: $55,441
Prin. Invest.: B A DEVANTIER
Tech. Officer: ARC/J E FINN
CASE Category: 43 – CHEMICAL ENGR

NCC 5 70 SOUTHERN ILLINOIS UNIVERSITY – CARBONDALE **4366**
INVESTIGATION OF SOURCE LOCATION DETERMINATION FRO M MAGSAT MAGNETIC ANOMALIES: THE EULER METHOD...
05/12/1994 – 08/31/1996 FY97: $0 Total: $16,999
Prin. Invest.: D N RAVAT
Tech. Officer: GSFC/P TAYLOR, GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 2 380 UNIVERSITY OF CHICAGO **4367**
DATA REDUCTIONS AND ANALYSIS FOR THE UNIV OF CHICACHARGED PARTICLE INSTRUMENT ON THE PIONEER10 AND
11/01/1987 – 10/31/1997 FY97: $119,999 Total: $4,786,752
Prin. Invest.: J A SIMPSON
Tech. Officer: ARC/L E LASHER, ARC/R A CRAIG
CASE Category: 13 – PHYSICS

NAG 2 1035 UNIVERSITY OF CHICAGO **4368**
SOFIA SCIENCE WORKING GROUP
04/12/1996 – 09/30/1996 FY97: –$853 Total: $24,223
Prin. Invest.: D A HARPER
Tech. Officer: ARC/E F ERICKSON
CASE Category: 11 – ASTRONOMY

NAG 2 1036 UNIVERSITY OF CHICAGO **4369**
SOFIA SCIENCE WORKING GROUP
04/03/1996 – 09/30/1997 FY97: $0 Total: $14,585
Prin. Invest.: R HILDEBRAND
Tech. Officer: ARC/E F ERICKSON
CASE Category: 11 – ASTRONOMY

NAG 2 1059 UNIVERSITY OF CHICAGO **4370**
ANALYSIS OF POLARIZATION DATA FROM THE KUIPER AIRB ORNE OBSERVATORY
07/01/1996 – 03/31/1998 FY97: $0 Total: $27,343
Prin. Invest.: R H HILDEBRAND
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 1061 UNIVERSITY OF CHICAGO **4371**
A FAR INFRARED CAMERA FOR SOFIA
07/03/1996 – 01/31/1998 FY97: $0 Total: $103,416
Prin. Invest.: D A HARPER
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 1075 UNIVERSITY OF CHICAGO **4372**
PHOTOMETRY OF GALACTIC & EXTRAGALACTIC FAR–INFRARE D SOURCES USING THE 9.5CM AIRBORNE INFRARED
08/14/1996 – 01/31/1997 FY97: $0 Total: $62,000
Prin. Invest.: D A HARPER
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 1081 UNIVERSITY OF CHICAGO **4373**
A POLARIMETER FOR SOFIA
08/23/1996 – 03/31/1998 FY97: $0 Total: $152,463
Prin. Invest.: R H HILDEBRANCH
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 6001 UNIVERSITY OF CHICAGO **4374**
REALL–TIME DATA/VIDEO/VOICE UPLINK & DOWNLINK FOR THE KUIPER AIRBORNE OBSERVATORY (KAO)
08/22/1994 – 06/30/1997 FY97: $0 Total: $45,195
Prin. Invest.: R A LOEWINSTEIN, J C SWEITZER, D B COLE
Tech. Officer: ARC/R YEE, ARC/D J TUCKER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 706 UNIVERSITY OF CHICAGO **4375**
ASTROPHYSICAL STUDIES OF IMP SATELLITE DATA
10/01/1985 – 09/30/1997 FY97: $75,000 Total: $1,506,071
Prin. Invest.: J A SIMPSON, M G MUNOI
Tech. Officer: GSFC/G BULLOCK
CASE Category: 11 – ASTRONOMY

NAG 5 1454 UNIVERSITY OF CHICAGO **4376**
ANALYZING/INTERPRETING GAMMA–RAY BURST SPECTRA
08/27/1990 – 12/31/1996 FY97: $0 Total: $419,470
Prin. Invest.: D Q LAMB
Tech. Officer: GSFC/J P NORRIS, GSFC/D A KNIFFEN
CASE Category: 11 – ASTRONOMY

NAG 5 1485 UNIVERSITY OF CHICAGO **4377**
MAGNETIC FIELD DYNAMICS IN THE SOLAR INTERIOR AND OUTER SOLAR ATMOSPHERE
11/26/1990 – 04/30/1997 FY97: $297,082 Total: $1,994,600
Prin. Invest.: R ROSNER
Tech. Officer: GSFC/T J BIRMINGHAM
CASE Category: 13 – PHYSICS

NAG 5 2218 UNIVERSITY OF CHICAGO **4378**
CONVECTIVE TURBULENCE AND MIXING IN ASTROPHYSICS
02/23/1993 – 08/31/1997 FY97: –$265 Total: $1,539,735
Prin. Invest.: R ROSNER, N BRUMMELL, F CATTANEO
Tech. Officer: GSFC/J R FISCHER
CASE Category: 13 – PHYSICS

NAG 5 2660 UNIVERSITY OF CHICAGO **4379**
ANALYSIS OF CLUSTERING AND STRUCTURE IN THE ANGULA DISTRIBU-TION OF GAMMA RAY BURSTS
07/21/1994 – 08/31/1997 FY97: $0 Total: $163,000
Prin. Invest.: J M QUASHNOCK, D Q LAMB
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2687 UNIVERSITY OF CHICAGO **4380**
TEMPORAL AND SPECTRAL PROPERTIES OF GALACTIC BLACK HOLE CANDIDATES
08/16/1994 – 08/31/1997 FY97: $0 Total: $163,000
Prin. Invest.: D Q LAMB
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2766 UNIVERSITY OF CHICAGO **4381**
ACCRETION AND OUTFLOW PHENOMENA IN YOUNG STELLAR OBJECTS
10/28/1994 – 08/31/1997 FY97: $0 Total: $322,050
Prin. Invest.: A KONIGL
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2770 UNIVERSITY OF CHICAGO **4382**
GALAXY AND CLUSTER FORMATION AND EVOLUTION
10/26/1994 – 08/31/1996 FY97: $0 Total: $90,400
Prin. Invest.: J W TRURAN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2792 UNIVERSITY OF CHICAGO **4383**
MODIFIED LAGRANGIAN–MEAN DIAGNOSTICS OF THE STRATO SPHERIC TRACER TRANSPORT
11/18/1994 – 11/30/1996 FY97: $85,904 Total: $257,643
Prin. Invest.: N NAKAMURA
Tech. Officer: GSFC/C H JACKMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2849 UNIVERSITY OF CHICAGO **4384**
STATISTICAL ANALYSIS OF ATMOSPHERIC TEMPERATURE AND OZONE DATA TREND FEATURES AND COMPARISONS, ETC
12/15/1994 – 02/14/1998 FY97: $32,370 Total: $102,370
Prin. Invest.: G C TIAO
Tech. Officer: GSFC/R D MCPETERS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2868 UNIVERSITY OF CHICAGO **4385**
FUNDAMENTAL STUDIES IN HIGH ENERGY ASTROPHYSICS
01/09/1995 – 03/14/1998 FY97: $0 Total: $183,000
Prin. Invest.: D Q LAMB
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2898 UNIVERSITY OF CHICAGO **4386**
GAMMA RAYS FROM CLASSICAL NOVAE
02/23/1995 – 02/28/1997 FY97: $0 Total: $65,000
Prin. Invest.: J W TRURAN
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2931 UNIVERSITY OF CHICAGO **4387**
THE CORONAE OF LOW MASS DWARF STARS.
04/18/1995 – 04/30/1997 FY97: $0 Total: $2,400
Prin. Invest.: V KASHYAP
Tech. Officer: GSFC/R OLIVERSON
CASE Category: 11 – ASTRONOMY

NAG 5 2976 UNIVERSITY OF CHICAGO **4388**
EUV SPECTROSCOPY OF MRK 421
06/16/1995 – 12/31/1996 FY97: $0 Total: $39,500
Prin. Invest.: A KONIGL
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 3025 UNIVERSITY OF CHICAGO **4389**
BIG BANG NUCLEOSYNTHESIS
10/02/1995 – 10/14/1996 FY97: $0 Total: $30,000
Prin. Invest.: D N SCHRAMM
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3041 UNIVERSITY OF CHICAGO **4390**
CLIMATOLOGICAL VARIATION OF EL NINOS
08/01/1995 – 09/30/1997 FY97: $70,000 Total: $145,000
Prin. Invest.: T T FUJITA
Tech. Officer: GSFC/A J NEGRI
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3076 UNIVERSITY OF CHICAGO **4391**
STUDIES OF CLASSICAL NOVAE: CONFRONTATION OF THEORY WITH OBSERVATIONS
09/22/1995 – 09/30/1997 FY97: $25,913 Total: $50,867
Prin. Invest.: S G TRURAN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3140 UNIVERSITY OF CHICAGO **4392**
RADIATIVE TRANSFER IN THE LOWER ATMOSPHER BASED ON TOMS/ ADEOS MEASUREMENT
11/03/1995 – 12/31/1997 FY97: $74,557 Total: $149,100
Prin. Invest.: J E FREDERICK
Tech. Officer: GSFC/A J KRUEGER, GSFC/P K BHARTIA
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3176 UNIVERSITY OF CHICAGO **4393**
INTERSTELLAR PLASMA PROPERTIES IN CONTRASTING LOW COLUMN DENSITY SIGHTLINES
03/11/1996 – 03/14/1997 FY97: $0 Total: $34,600
Prin. Invest.: P FRISCH
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3201 UNIVERSITY OF CHICAGO **4394**
HRI OBSERVATIONS OF THE PLEIADES III: THE REST OF THE STORY
04/12/1996 – 10/14/1997 FY97: $0 Total: $8,775
Prin. Invest.: R ROSKER
Tech. Officer: GSFC/R PETRE
CASE Category: 12 – CHEMISTRY

NAG 5 3202 UNIVERSITY OF CHICAGO **4395**
IMAGE OF A CANDIDATE HIGH REDSHIFT X–RAY CLUSTER O F GALAXIES
04/12/1996 – 10/14/1997 FY97: $0 Total: $9,196
Prin. Invest.: R NICHOL
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 3228 UNIVERSITY OF CHICAGO **4396**
ABUNDANCES AND PHYSICAL CONDITIONS FOR INDIVIDUALS INTERSTELLAR CLOUDS
05/07/1996 – 04/30/1997 FY97: $118,300 Total: $232,500
Prin. Invest.: D E WELTY
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3253 UNIVERSITY OF CHICAGO **4397**
MICROWAVE ANISOTROPHY PROBE FOR MIDEX
06/06/1996 – 06/14/1997 FY97: $39,272 Total: $59,357
Prin. Invest.: S S MEYER
Tech. Officer: GSFC/C L BENNETT
CASE Category: 11 – ASTRONOMY

NAG 5 3670 UNIVERSITY OF CHICAGO **4398**
ANALYSIS AND MODELING OF CYCLOTRON LINES IN THE SP BURSTS; CONTRAINTS ON THE DISTANCE SCALE TO COSMO
12/31/1996 – 12/31/1997 FY97: $30,000 Total: $30,000
Prin. Invest.: D Q LAMB
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3687 UNIVERSITY OF CHICAGO **4399**
ACCRETION AND OUTFLOW PHENOMENA IN YOUNG STELLAR O
01/15/1997 – 01/14/1998 FY97: $131,600 Total: $131,600
Prin. Invest.: A KONIGL
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3986 UNIVERSITY OF CHICAGO **4400**
ISOTOPIC STUDIES OF THE MOON AND METEORITES
02/26/1997 – 12/31/1997 FY97: $240,000 Total: $240,000
Prin. Invest.: D N CLAYTON
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 – CHEMISTRY

NAG 5 4005 UNIVERSITY OF CHICAGO **4401**
WEB–SITE DISSEMINATION OF THE UNIVERSITY OF CHICAG SETS
03/06/1997 – 02/28/1998 FY97: $15,887 Total: $15,887
Prin. Invest.: D LOPATE
Tech. Officer: GSFC/J WILLETT
CASE Category: 13 – PHYSICS

NAG 5 4070 UNIVERSITY OF CHICAGO **4402**
INFRARED SPECTROSCOPY OF MOLECULAR IONS OF ASTROPH
03/19/1997 – 03/14/1998 FY97: $77,000 Total: $77,000
Prin. Invest.: D OKA
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 4087 UNIVERSITY OF CHICAGO **4403**
ANALYSIS OF ICE–SHELF TEARING AND FLOW SEPARATION
03/10/1997 – 12/31/1997 FY97: $16,830 Total: $16,830
Prin. Invest.: D MACAYEAL
Tech. Officer: GSFC/R H THOMAS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4153 UNIVERSITY OF CHICAGO **4404**
ARCHIVING THE CRRES ONR–604 EXPERIMENT DATASET AND NSSDC
03/17/1997 – 03/31/1998 FY97: $33,946 Total: $33,946
Prin. Invest.: D PYLE
Tech. Officer: GSFC/J WILLETT
CASE Category: 13 – PHYSICS

NAG 5 4234 UNIVERSITY OF CHICAGO **4405**
BARYONS IN THE UNIVERSE: FROM REDSHIFT 1OØ10 TO TH
03/24/1997 – 03/31/1998 FY97: $35,000 Total: $35,000
Prin. Invest.: D N SCHRAMM
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4297 UNIVERSITY OF CHICAGO **4406**
PRESOLAR GRAINS AND THE EARLY SOLAR SYSTEM
04/04/1997 – 11/30/1997 FY97: $178,595 Total: $178,595
Prin. Invest.: D S LEWIS
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4298 UNIVERSITY OF CHICAGO **4407**
REFRACTORY INCLUSIONS IN CARBONACEOUS CHONDRITES
04/04/1997 – 02/28/1998 FY97: $89,000 Total: $89,000
Prin. Invest.: D M DAVIS
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4406 UNIVERSITY OF CHICAGO **4408**
STUDY OF THE SYSTEMACTIC ERRORS IN THE POSITIONS O
05/06/1997 – 05/14/1998 FY97: $41,000 Total: $41,000
Prin. Invest.: D Q LAMB
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 4461 UNIVERSITY OF CHICAGO **4409**
STELLAR ORIGINS AND INTERSTELLAR CARRIERS OF NUCLE OMALIES
05/21/1997 – 03/31/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: D N CLAYTON
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4462 UNIVERSITY OF CHICAGO **4410**
MILLIMETER APERTURE SYNTHESIS POLARIMETRY AND THE N OF PROTO–PLANETARY DISKS
06/09/1997 – 09/30/1998 FY97: $78,776 Total: $78,776
Prin. Invest.: D E CARLSTROM
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4476 UNIVERSITY OF CHICAGO **4411**
CHEMICAL ASPECTS OF THE ORIGIN OF THE SOLAR SYSTEM
06/09/1997 – 11/30/1997 FY97: $218,000 Total: $218,000
Prin. Invest.: D GROSSMAN
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4499 UNIVERSITY OF CHICAGO **4412**
MARS 94 PARTICIPATING SCIENTIST AND CO–INVESTIGATO
05/06/1997 – 04/30/1998 FY97: $60,000 Total: $60,000
Prin. Invest.: D E ECONOMOU
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4508 UNIVERSITY OF CHICAGO **4413**
PRECISION BALLOON–BORNE MEASUREMENTS IN THE COSMIC RADIATION
05/30/1997 – 05/31/1998 FY97: $10,000 Total: $10,000
Prin. Invest.: S MEYER
Tech. Officer: GSFC/R F SILVERBERG
CASE Category: 13 – PHYSICS

NAG 5 4509 UNIVERSITY OF CHICAGO **4414**
GINGA GAMMA-RAY BURST LINE OCCURRENCE
05/15/1997 – 05/14/1998 FY97: $47,900 Total: $47,900
Prin. Invest.: D Q LAMB
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4595 UNIVERSITY OF CHICAGO **4415**
ON-LINE ARCHIVAL OF THE UNIVERSITY OF CHICAGO IMP-
05/19/1997 – 12/31/1997 FY97: $9,071 Total: $9,071
Prin. Invest.: D LOPATE
Tech. Officer: GSFC/J WILLETT
CASE Category: 13 – PHYSICS

NAG 5 4702 UNIVERSITY OF CHICAGO **4416**
MINERALOGY AND CHEMISTRY OF PLANETS AND METEORITES
06/11/1997 – 05/31/1998 FY97: $30,000 Total: $30,000
Prin. Invest.: D M STEELE
Tech. Officer: GSFC/D F NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4777 UNIVERSITY OF CHICAGO **4417**
PHYSICAL INVESTIGATORS RELATED TO RAIN AND RETRIEV OF RAIN AND LATENT HEATING
06/20/1997 – 06/30/1998 FY97: $79,668 Total: $79,668
Prin. Invest.: R C SRIVASTAVA
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4953 UNIVERSITY OF CHICAGO **4418**
TURBULENT CONVECTION AND ITS ROLE IN ACOUSTIC EMIS
06/23/1997 – 04/30/1998 FY97: $90,000 Total: $90,000
Prin. Invest.: D CATTANEO
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NAG 5 5070 UNIVERSITY OF CHICAGO **4419**
HIGH ENERGY ANTIMATTER TELESCOPE (HEAT)
05/03/1996 – 10/31/1997 FY97: $300,000 Total: $510,000
Prin. Invest.: D MULLER
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5071 UNIVERSITY OF CHICAGO **4420**
STUDIES OF THE COSMIC RADIATION AT HIGH ENERGIES
05/03/1996 – 10/31/1997 FY97: $245,000 Total: $455,000
Prin. Invest.: S P SWORDY
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5072 UNIVERSITY OF CHICAGO **4421**
EXPERIMENTS IN HIGH ENERGY ASTROPHYSICS
05/03/1996 – 10/31/1997 FY97: $200,000 Total: $270,000
Prin. Invest.: D MULLER
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5089 UNIVERSITY OF CHICAGO **4422**
GIANT PLATFORMS FOR COSMIC RAY OBSERVATIONS ABOVE THE ATMOSPHERE
11/14/1996 – 09/30/1998 FY97: $235,139 Total: $235,139
Prin. Invest.: D MULLER
Tech. Officer: GSFC/M C NEDDLEMAN, GSFC/N A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 6180 UNIVERSITY OF CHICAGO **4423**
KINETICS OF VOLITILIZATION OF INTERSTELLAR GRAINS
08/05/1997 – 06/30/1998 FY97: $60,000 Total: $60,000
Prin. Invest.: D GROSSMAN
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 6188 UNIVERSITY OF CHICAGO **4424**
SOURCE POPULATION OF PICKUP IONS AND ANOMALOUS COS
09/05/1997 – 04/30/1998 FY97: $45,000 Total: $45,000
Prin. Invest.: D FRISCH
Tech. Officer: GSFC/M FORMAN
CASE Category: 11 – ASTRONOMY

NAG 8 1248 UNIVERSITY OF CHICAGO **4425**
THREE DIMENSIONAL VELOCITY FIELD CHARACTERIZATION IN A BRIDG-MAN APPARATUS
04/30/1996 – 04/29/1998 FY97: $50,000 Total: $150,000
Prin. Invest.: S S CHA
Tech. Officer: MSFC/C R TALLEY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 1693 UNIVERSITY OF CHICAGO **4426**
THE FOSSIL RECORD OF EVOLUTION DATA ON DIVERSIFICATION
03/01/1989 – 09/30/1997 FY97: $0 Total: $295,000
Prin. Invest.: J J SEPKOSKI
Tech. Officer: HQ/J D RUMMEL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1847 UNIVERSITY OF CHICAGO **4427**
FURTHER DEVELOPMENT OF ALPHA PARTICLE INSTRUMENT W ITH ALPHA PROTON AND X-RAY MODES
03/13/1990 – 12/31/1998 FY97: $0 Total: $1,077,734
Prin. Invest.: T ECONOMU
Tech. Officer: HQ/P R MAHAFFY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2272 UNIVERSITY OF CHICAGO **4428**
COLLABORATIVE RESEARCH OXYGEN ISOTOPIC HETEROGENEI TY IN OLIVINE AND PYROXENE FROM ORDINARY CAR
02/22/1991 – 10/31/1995 FY97: $0 Total: $96,372
Prin. Invest.: I M STEELE
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 2578 UNIVERSITY OF CHICAGO **4429**
MARS '94 PARTICIPATING SCIENTIST AND COINVESTIGATO R PROGRAM
08/16/1991 – 04/30/1998 FY97: $0 Total: $797,008
Prin. Invest.: T ECONOMOU
Tech. Officer: HQ/W L QUAIDE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3069 UNIVERSITY OF CHICAGO **4430**
STELLAR ORIGINS AND INTERSTELLAR CARRIERS OF NUCLE OSYNTHETIC ISOTOPIC ANOMALIES
05/07/1992 – 03/31/1997 FY97: $0 Total: $180,000
Prin. Invest.: R CLAYTON
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3212 UNIVERSITY OF CHICAGO **4431**
NAGW-3212/UNIV CHICAGO/KINETICS OF VOLATILIZATION OF INTERSTELLAR GRAINS
09/29/1992 – 03/31/1997 FY97: $0 Total: $255,000
Prin. Invest.: L GROSSMAN
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3340 UNIVERSITY OF CHICAGO **4432**
CHEMICAL ASPECTS OF THE ORIGIN OF THE SOLAR SYSTEM
01/13/1993 – 08/31/1997 FY97: $0 Total: $840,497
Prin. Invest.: L GROSSMAN
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3342 UNIVERSITY OF CHICAGO **4433**
PRESOLAR GRAINS AND THE EARLY SOLAR SYSTEM
01/15/1993 – 09/30/1997 FY97: $0 Total: $657,254
Prin. Invest.: R LEWIS
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3345 UNIVERSITY OF CHICAGO **4434**
ISOTOPIC STUDIES OF THE MOON AND METEORITES
01/15/1993 – 08/31/1997 FY97: $140,000 Total: $988,214
Prin. Invest.: R N CLAYTON
Tech. Officer: HQ/H C BRINTON
CASE Category: 13 – PHYSICS

NAGW 3384 UNIVERSITY OF CHICAGO **4435**
REFRACTORY INCLUSIONS IN CARBONACEOUSCHONDRITES
02/16/1993 – 08/31/1997 FY97: $0 Total: $341,625
Prin. Invest.: A DAVIS
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3416 UNIVERSITY OF CHICAGO **4436**
MINERALOGY AND CHEMISTRY OF PLANETS AND METEORITES
03/09/1993 – 05/31/1997 FY97: $0 Total: $251,231
Prin. Invest.: I STEELE
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3651 UNIVERSITY OF CHICAGO **4437**
DEVELOPMENT OF X-RAY FLUORESCENCE AND X-RAY ABSORP TION SPECTROSCOPY FACILITY
06/15/1993 – 09/30/1997 FY97: $0 Total: $236,991
Prin. Invest.: S SUTTON
Tech. Officer: HQ/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 4281 UNIVERSITY OF CHICAGO **4438**
STRATOSPERIC LAGRANGIAN TRACER TRANSPORT
02/10/1995 – 06/30/1996 FY97: $0 Total: $17,540
Prin. Invest.: N NAHAMURA
Tech. Officer: HQ/J A KAYE, HQ/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4504 UNIVERSITY OF CHICAGO **4439**
TURBULENT CONVECTION & ITS ROLE IN ACOUSTIC EMISSI ON & TRANSPORT
05/16/1995 – 11/30/1997 FY97: $0 Total: $173,230
Prin. Invest.: F CATTANEO
Tech. Officer: HQ/W J WAGNER, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4678 UNIVERSITY OF CHICAGO **4440**
ANALYSIS OF QUASI-STEADY SOLAR CORONAL STRUCTURES FOR YOHKOH
08/18/1995 – 04/30/1997 FY97: $0 Total: $98,096
Prin. Invest.: R ROSNER
Tech. Officer: HQ/W J WAGNER, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4682 UNIVERSITY OF CHICAGO **4441**
INSTERSTELLAR GAS AND YOUNG STARS IN THE GALACTIC HALO
08/04/1995 – 08/31/1998 FY97: $0 Total: $34,135
Prin. Invest.: L M HOBBS
Tech. Officer: HQ/R A STACHNIK
CASE Category: 11 – ASTRONOMY

NAGW 4769 UNIVERSITY OF CHICAGO **4442**
INFRARED SPECTROSCOPY OF MOLECULAR IONS OF ASTROPH YSICAL INTEREST
09/16/1995 – 09/14/1996 FY97: $0 Total: $76,000
Prin. Invest.: T OKA
Tech. Officer: HQ/L J CAROFF
CASE Category: 13 – PHYSICS

NAGW 4892 UNIVERSITY OF CHICAGO **4443**
ON-LINE ARCHIVAL OF THE UNIVERSITY OF CHICAGO IMP- 8 DATA SETS
01/22/1996 – 12/31/1996 FY97: $0 Total: $15,351
Prin. Invest.: C LOPATE
Tech. Officer: HQ/J B WILLETT
CASE Category: 13 – PHYSICS

NAGW 4911 UNIVERSITY OF CHICAGO **4444**
REMAINING RESTORATION AND ARCHIVING WORK WITH THE DATA FROM THE EXPERIMENT ABOARD THE ISEE-3
01/29/1996 – 12/31/1996 FY97: -$1,029 Total: $22,374
Prin. Invest.: P MEYER
Tech. Officer: HQ/J B WILLETT
CASE Category: 13 – PHYSICS

NAGW 4957 UNIVERSITY OF CHICAGO **4445**
ARCHIVING THE CRRES ONR-604 EXPERIMENT DATASET & S UBMISSION TO THE NSSDC
03/26/1996 – 03/31/1997 FY97: $0 Total: $27,599
Prin. Invest.: K PYLE
Tech. Officer: HQ/J WILLETT
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 5005 UNIVERSITY OF CHICAGO **4446**
ANALYSIS OF ICE-SHELF TEARING AND FLOW-SEPARATION AT ICE-STREAM OUTLETS
03/27/1996 – 09/30/1997 FY97: $0 Total: $5,580
Prin. Invest.: D R MACAYEAL
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 5061 UNIVERSITY OF CHICAGO **4447**
SOURCE POPULATION OF THE PICK UP ION AND ANOMALOUS COSMIC RAYS
05/23/1996 – 04/30/1997 FY97: $0 Total: $46,000
Prin. Invest.: P C FRISCH
Tech. Officer: HQ/M A FORMAN, HQ/G L WITHBROE
CASE Category: 11 – ASTRONOMY

NAS 1 18239 UNIVERSITY OF CHICAGO **4448**
HALOGEN OCCULATION EXPERIMENT (HALOE) SCIENTIFIC SUPPORT
02/20/1986 – 07/31/1996 FY97: $0 Total: $195,000
Prin. Invest.: J E FREDERICK
Tech. Officer: LARC/E M SULLIVAN, LARC/J M RUSSELL III
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 265 UNIVERSITY OF CHICAGO **4449**
NUMERICAL EXPERIMENTS ON THEDYNAMICS OF GALAXIES
08/01/1983 – 08/31/1997 FY97: $0 Total: $246,859
Prin. Invest.: R H MILLER
Tech. Officer: ARC/B F SMITH, ARC/P M CASSEN
CASE Category: 11 – ASTRONOMY

NCC 5 151 UNIVERSITY OF CHICAGO **4450**
GRAND CHALLENGE RESEARCH
08/26/1996 – 08/26/1999 FY97: $639,000 Total: $927,000
Prin. Invest.: A MALAGOLI
Tech. Officer: GSFC/J R FISCHER
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NGR14 1227 UNIVERSITY OF CHICAGO **4451**
NEW RESEARCH GRANT
02/27/1973 – 01/31/1996 FY97: –$1,703 Total: $4,740,833
Prin. Invest.: D A HARPER JR
Tech. Officer: ARC/C D LAUGHLIN
CASE Category: 11 – ASTRONOMY

NGT 30323 UNIVERSITY OF CHICAGO **4452**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/11/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: D R MCAYEAL
Tech. Officer: HQ/M BALTUCK, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 50778 UNIVERSITY OF CHICAGO **4453**
NGT-50778/UNIV. CHICAGO/GRADUATE STUDENT RESEARCHERS PROGRAM
07/01/1991 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: D Q LAMB
Tech. Officer: HQ/F C OWENS
CASE Category: 11 – ASTRONOMY

NGT 51059 UNIVERSITY OF CHICAGO **4454**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/09/1993 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: D Q LAMB
Tech. Officer: HQ/DHOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51066 UNIVERSITY OF CHICAGO **4455**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/01/1993 – 06/30/1996 FY97: –$94 Total: $65,906
Prin. Invest.: D MULLER
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51300 UNIVERSITY OF CHICAGO **4456**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/07/1994 – 12/31/1996 FY97: –$5,448 Total: $49,552
Prin. Invest.: J A SIMPSON
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51311 UNIVERSITY OF CHICAGO **4457**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/08/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: R HILDEBRAND
Tech. Officer: ARC/M MOORE
CASE Category: 11 – ASTRONOMY

NGT 51318 UNIVERSITY OF CHICAGO **4458**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/07/1994 – 09/30/1996 FY97: –$469 Total: $43,531
Prin. Invest.: D N SCHRAMM
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51322 UNIVERSITY OF CHICAGO **4459**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/14/1994 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: D Q LAMB
Tech. Officer: HQ/PSMITH
CASE Category: 13 – PHYSICS

NGT 51653 UNIVERSITY OF CHICAGO **4460**
GRAD STUDENT RESEARCH PROGRAM
08/15/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: J FRIEMAN
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51702 UNIVERSITY OF CHICAGO **4461**
GRADAUTE STUDENT RESEARCHERS PROGRAM
07/08/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: D SCHRAMM
Tech. Officer: JPL/G LESANE
CASE Category: 11 – ASTRONOMY

NGT 2 52210 UNIVERSITY OF CHICAGO **4462**
INFRARED POLARIMETRY OF GALACTIC STAR-FORMING REGI ONS
09/21/1995 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: C D DOWELL
Tech. Officer: ARC/T L ROELLIG
CASE Category: 11 – ASTRONOMY

NGT 5 18 UNIVERSITY OF CHICAGO **4463**
RADIATION–HYDRODYNAMICAL STUDIES OF BIASED GALAXY FORMATION
07/15/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: D Q LAMB
Tech. Officer: GSFC/G SOFFEN
CASE Category: 11 – ASTRONOMY

NGT 5 19 UNIVERSITY OF CHICAGO **4464**
TEMPERATURE ANTISOTROPIES IN THE COSMIC MICROWAVE BACK-GROUND RADIATION (CMBR)
07/15/1996 – 07/14/1997 FY97: $22,000 Total: $44,000
Prin. Invest.: M S TURNER
Tech. Officer: GSFC/G A SOFFEN, GSFC/E CHENG
CASE Category: 11 – ASTRONOMY

NGT 5 30086 UNIVERSITY OF CHICAGO **4465**
SENSITIVITY OF THE WEST ANTARCTIC ICE SHEET TO CHA INTERNAL FLOW PROCESSES, INVESTIGATED WITH A FINI
09/09/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D MACAYEAL
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50005 UNIVERSITY OF CHICAGO **4466**
ELEMENTAL COMPOSITION OF HIGH ENERGY COSMIC RAYS
11/25/1996 – 09/30/1997 FY97: $44,000 Total: $44,000
Prin. Invest.: D MULLER
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 13 – PHYSICS

NGT 5 50140 UNIVERSITY OF CHICAGO **4467**
WEAK GRAVITATIONAL LENSING WITH LARGE FIELD OF VIE
09/10/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J FREIMAN
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50142 UNIVERSITY OF CHICAGO **4468**
STATISTICAL ANALYSIS OF THE COSMIC MICROWAVE BACKG
09/10/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D SCHRAM
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NSG 2057 UNIVERSITY OF CHICAGO **4469**
STUDY OF SENSITIVE DETECTION SYSTEM FOR FAR INFRARED ASTRONOMY
12/14/1975 – 10/31/1997 FY97: $0 Total: $2,795,668
Prin. Invest.: R H HILDEBRAND
Tech. Officer: ARC/L C HAUGHNEY
CASE Category: 11 – ASTRONOMY

NAG 1 1594 UNIVERSITY OF ILLINOIS – CHICAGO CIRCLE **4470**
ADVANCED INTERFEROMETRIC TOMOGRAPHY FOR AERODYNAMICS FLOW MEASUREMENTS
02/09/1994 – 08/08/1997 FY97: $0 Total: $120,000
Prin. Invest.: S S CHA
Tech. Officer: LARC/A W BURNER JR., LARC/J C HOPPE
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1631 UNIVERSITY OF ILLINOIS – CHICAGO CIRCLE **4471**
THE EFFECTS OF SOOTING IN REDUCED GRAVITY DROPLET COMBUSTION
06/24/1994 – 06/23/1998 FY97: $59,139 Total: $301,932
Prin. Invest.: M Y CHOI
Tech. Officer: LERC/H D ROSS
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1722 UNIVERSITY OF ILLINOIS – CHICAGO CIRCLE **4472**
MORPHOLOGICAL CHANGES OF SOOT GENERATED UNDER ELEC TRIC AND MAGNETIC FIELDS
03/25/1995 – 03/24/1997 FY97: $0 Total: $6,000
Prin. Invest.: M Y CHOI
Tech. Officer: LERC/N D PILTCHI
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1822 UNIVERSITY OF ILLINOIS – CHICAGO CIRCLE **4473**
ADDITIONAL METHODS OF GRIDIDNG OF DOUBLE CIRCULAR– ARC HELIAL GEARS
03/22/1996 – 12/21/1996 FY97: $0 Total: $40,000
Prin. Invest.: D L LITVIN
Tech. Officer: LERC/D P TOWNSEND
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1905 UNIVERSITY OF ILLINOIS – CHICAGO CIRCLE **4474**
FLUID DYANAMICS AND SOLIDIFICATION OF MOLTEN SOLER DROPLETS IMPACTING ON ASUBSTRATE IN MICROGRAVITY
06/10/1996 – 06/09/2000 FY97: $17,535 Total: $117,324
Prin. Invest.: D POULIKAKOS
Tech. Officer: LERC/W DUVAL
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1992 UNIVERSITY OF ILLINOIS – CHICAGO CIRCLE **4475**
COMPUTERIZED GENERATION & SIMULATION OF MESHING & CONTACT OF INVOLUTE TYPENOVIKOV HELICAL GEARS
11/15/1996 – 11/14/1997 FY97: $60,000 Total: $60,000
Prin. Invest.: D LITVIN
Tech. Officer: LERC/D P TOWNSEND
CASE Category: 46 – MECHANICAL ENGR

NAG 5 4593 UNIVERSITY OF ILLINOIS – CHICAGO CIRCLE **4476**
ULTRASTRUCTURAL, NEUROCHEMICAL AND DEVELOPMENTAL R HYPER-GRAVITY
05/19/1997 – 05/14/1998 FY97: $78,875 Total: $78,875
Prin. Invest.: A LYSAKOWSKI
Tech. Officer: GSFC/T SCOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 8 1261 UNIVERSITY OF ILLINOIS – CHICAGO CIRCLE **4477**
RESEARCH "COMBUSTION SYNTHESIS OF MATERIALS IN MICROGRAVITY"
04/25/1996 – 04/30/1997 FY97: $63,531 Total: $183,531
Prin. Invest.: K BREZINSKY
Tech. Officer: MSFC/C TALLEY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 9 764 UNIVERSITY OF ILLINOIS – CHICAGO CIRCLE **4478**
ANALYTICAL & EXPERIMENTAL CHARACTERIZATION OF TWO– PHASE FLOW IN PIPING BENDS AND ELBOWS
09/19/1994 – 08/31/1996 FY97: –$4,435 Total: $51,565
Prin. Invest.: D B DUNCAN
Tech. Officer: JSC/D SOCKOREZ
CASE Category: 46 – MECHANICAL ENGR

NCC 2 837 UNIVERSITY OF ILLINOIS – CHICAGO CIRCLE **4479**
AUTOMATION: DECISION AID OR DECISION MAKER?
01/12/1994 – 09/30/1996 FY97: $0 Total: $345,153
Prin. Invest.: L J SKITKA
Tech. Officer: ARC/K M CORKER
CASE Category: 62 – PSYCHOLOGY SOCIAL ASPECTS

NCC 2 986 UNIVERSITY OF ILLINOIS – CHICAGO CIRCLE **4480**
AUTOMATION: DECISION AID OR DECISION MAKER
04/11/1997 – 09/30/1997 FY97: $131,240 Total: $131,240
Prin. Invest.: L J SKITKA
Tech. Officer: ARC/M M CONNORS
CASE Category: 69 – PSYCHOLOGY, OTHER

NGT 51688 UNIVERSITY OF ILLINOIS – CHICAGO CIRCLE **4481**
GRAD STUD RES PROG
08/07/1996 – 07/31/1997 FY97: $0 Total: $22,000
Prin. Invest.: M Y CHOI
Tech. Officer: HQ/GLESANE
CASE Category: 46 – MECHANICAL ENGR

NGT 3 52300 UNIVERSITY OF ILLINOIS – CHICAGO CIRCLE **4482**
GRADUATE STUDENT RESEARCH PROGRAM
08/21/1995 – 08/20/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: C MEGARIDIS
Tech. Officer: LERC/L SHAW
CASE Category: 46 – MECHANICAL ENGR

NGT 3 52322 UNIVERSITY OF ILLINOIS – CHICAGO CIRCLE **4483**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/11/1996 – 08/31/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: M Y CHOI
Tech. Officer: LERC/F MONTEGANI
CASE Category: 46 – MECHANICAL ENGR

NGT 3 52337 UNIVERSITY OF ILLINOIS – CHICAGO CIRCLE **4484**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/19/1997 – 07/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: C MEGARIDIS
Tech. Officer: LERC/F MONTEGANI
CASE Category: 46 – MECHANICAL ENGR

NGT 5 50155 UNIVERSITY OF ILLINOIS – CHICAGO CIRCLE **4485**
MODELLING OF SOOTING AND RADIATION EFFECTS IN DROP SAMUEL MANZELLO
09/11/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: M CHOI
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 1 613 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4486**
CENTER OF EXCELLENCE IN AEROSPACE COMPUTING RESEAR CH AND TECHNOLOGY
08/26/1985 – 09/30/1997 FY97: $538,263 Total: $6,627,503
Prin. Invest.: R K IYER, J K W–S LIU
Tech. Officer: LARC/K A SMITH
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1530 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4487**
INSTANTANEOUS STRUCTURE OF SEPARATED TURBULENT BOULDARY LAYERS NLPN 93–619
08/03/1993 – 08/02/1996 FY97: –$1 Total: $128,920
Prin. Invest.: R J ADRIAN
Tech. Officer: LARC/M J WALSH
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1583 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4488**
INVESTIGATION OF THE STABILITY OF CORNER FLOW A MODEL FOR WING BODY JUNCTION
12/21/1993 – 08/31/1996 FY97: –$28 Total: $54,852
Prin. Invest.: S BALACHANDAR
Tech. Officer: LARC/C L STREET, LARC/A KUMAR
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1659 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4489**
ANALYSES OF SCEANARIOS FOR PAST AND POSSIBLE FUTUR E AIR-CRAFT EMISSIONS
12/09/1994 – 09/30/1997 FY97: $63,184 Total: $183,256
Prin. Invest.: D J WUEBBLES
Tech. Officer: LARC/D L MAIDEN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1741 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4490**
MODEL VALIDATION AND SENSITIVITY STUDIES FOR DETER MINING AIR-CRAFT EFFECTS ON THE GLOBAL ATMOSPHERE
07/20/1995 – 09/30/1996 FY97: $0 Total: $73,000
Prin. Invest.: D J WUEBBLES
Tech. Officer: LARC/D L MAIDEN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1782 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4491**
ALGORITHOMS FOR PERFORMANCE, DEPENDABILITY, AND PERFORM-ABILITY EVALUATION USING STOCKASTIC ACTIVIT
01/16/1996 – 01/15/1997 FY97: –$181 Total: $74,819
Prin. Invest.: W H SANDERS
Tech. Officer: LARC/R L JONES,111
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1861 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4492**
DEVELOPMENT OF ADVANCED LASER DIODE SOURCES FOR REMOTE SENSING APPLICATIONS
08/01/1996 – 07/31/1997 FY97: $0 Total: $40,000
Prin. Invest.: J J COLEMAN, G C PAPEN
Tech. Officer: LARC/C J MAGEE, LARC/J C BARNES
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 863 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4493**
EFFECTS OF DIET ON METABOLISM OF LABORATORY RATS
08/04/1993 – 02/29/1996 FY97: –$122 Total: $150,875
Prin. Invest.: P C HARRISON, R G MAGIRANG, G L RISKOWSKI
Tech. Officer: ARC/S M HING, ARC/C C JOHNSON
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 996 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4494**
STUDIES & RESEARCH INTO FUTURE AIR TRANSPORTATION MANAGE-MENT CONCEPTS &TECHNOLOGY
08/23/1995 – 07/31/1997 FY97: $21,555 Total: $107,211
Prin. Invest.: C D WICKENSW
Tech. Officer: ARC/V BATTISTE, ARC/J D FOSTER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 1031 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4495**
DUCTILE TEARING OF SURFACE CRACKES: COMPUTATIONAL PROCEDURES & APPLICATIONS
03/08/1996 – 09/30/1997 FY97: $29,700 Total: $99,054
Prin. Invest.: R H DODDS, JR.*Prin. Invest.:* NONE
Tech. Officer: ARC/T L PANONTIN
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 2 1067 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4496**
A STUDY OF PHOTON–DOMINATED REGIONS IN REFLECTION NEBULAE
07/18/1996 – 08/31/1998 FY97: $0 Total: $25,672
Prin. Invest.: M MEIXNER, NONE
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 1120 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4497**
SEAMLESS DISPLAYS FOR AIRCRAFT LANDING
03/27/1997 – 09/14/1997 FY97: $79,757 Total: $79,757
Prin. Invest.: C D WICKENS
Tech. Officer: ARC/D C FOYLE
CASE Category: 69 – PSYCHOLOGY, OTHER

NAG 2 1126 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4498**
ADVANCEMENTS IN 3–D NUMERICAL MODELING OF DUCTILE FRACTURE
04/11/1997 – 09/30/1998 FY97: $144,550 Total: $144,550
Prin. Invest.: R H DODDS, JR.
Tech. Officer: ARC/R W HAMPTON, ARC/J C NEWMAN, JR.
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1134 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4499**
EFFECT OF ICE ACCRETION ON AIRCRAFT AERODYNAMICS
02/13/1990 – 11/28/1995 FY97: -$808 Total: $481,640
Prin. Invest.: M B BRAGG
Tech. Officer: LERC/M G POTAPCZUK
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1474 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4500**
STUDY OF TIME DOMAIN ELECTROMAGNETIC SCATTERING
05/05/1993 – 05/17/1997 FY97: $0 Total: $600,000
Prin. Invest.: S W LEE
Tech. Officer: LERC/A J ZAMAN
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1552 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4501**
DIRECT INJECTION OF NATURAL GAS: IN–CYLINDER MEASU REMENTS & CALCULATIONS
01/07/1994 – 01/04/1998 FY97: $0 Total: $560,286
Prin. Invest.: R P LUCHT, D N ASSANIS, J E PETERS
Tech. Officer: LERC/M J VALCO
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1681 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4502**
EFFORT IF ICE LACCRETION ON AIRFOIL AEORDYNAMICS A ND HEAT TRANSFER
11/21/1994 – 06/05/1997 FY97: $0 Total: $195,000
Prin. Invest.: M B BRAGG
Tech. Officer: LERC/J SHIN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1687 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4503**
PROTOTYPE INSTRUMENT FOR DAMAGE EVALUATION OF STEE L BELTED RADIAL TIRES
12/08/1994 – 12/07/1996 FY97: $0 Total: $5,000
Prin. Invest.: H L REIS
Tech. Officer: LERC/A VARY, LERC/G A HORSHAM
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1704 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4504**
MODELING OF MICROGRAVITY COMBUSTION EXPERIMENTS – PHASE II
03/16/1995 – 03/15/1998 FY97: $85,586 Total: $208,000
Prin. Invest.: J D BUCKMASTER
Tech. Officer: LERC/S GOKOGLU
CASE Category: 21 – MATHEMATICS

NAG 3 1926 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4505**
PREDICTION OF MACROSCOPIC PROPERTIES IN LIQUID HEL IUM FROM COMPUTER SIMULATION
07/19/1996 – 07/21/2000 FY97: $38,000 Total: $138,000
Prin. Invest.: D M CEPERLEY, N GOLDENFIELD
Tech. Officer: LERC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 3 1983 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4506**
DEVELOPMENT OF A SHAPE OPTIMIZATION TOOL FOR TRANSONIC COMPRESSORS BASDON NAVIER STOKES PHYSICS
11/04/1996 – 10/31/1999 FY97: $44,061 Total: $44,061
Prin. Invest.: K D LEE
Tech. Officer: LERC/E R MCFARLAND, LERC/J R WOOD
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1988 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4507**
A STUDY OF ICE ACCRETION PHYSICS TO IMPROVE THE PR EDICTION OF ICE ACCRETION ON AIRCRAFTS
11/15/1996 – 11/07/1997 FY97: $95,380 Total: $95,380
Prin. Invest.: M B BRAGG
Tech. Officer: LERC/D N ANDERSON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 1900 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4508**
DIFFUSE SOFT X–RAY EMISSION FROM THE DUMBBELL NEBU LA (NGC6853)?!
02/20/1992 – 09/30/1997 FY97: $0 Total: $162,950
Prin. Invest.: Y H CHU
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2040 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4509**
EOSDIS VERSION O STANDARD DATA FORMAT SUPPORT
07/16/1992 – 07/31/1997 FY97: $419,995 Total: $1,172,241
Prin. Invest.: M FOLK
Tech. Officer: GSFC/C CARLISLE
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2201 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4510**
DEVELOPMENT OF SCALABLE ALGORITHMS FOR NUMERICAL R ELATIVITY
02/23/1993 – 03/31/1997 FY97: $0 Total: $89,998
Prin. Invest.: P E SAYLOR, F SAIED, ESEIDEL
Tech. Officer: GSFC/J R FISCHER
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2244 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4511**
INTELLIGENT COMMAND AND CONTROL SYSTEM FOR SATELLI TE GROUND OPERATIONS
04/14/1993 – 04/14/1997 FY97: $0 Total: $144,404
Prin. Invest.: P M JONES
Tech. Officer: GSFC/A W STOFFEL
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2245 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4512**
SUPERNOVA REMNANTS HIDDEN IN SUPERBUBBLES
04/08/1993 – 04/14/1996 FY97: –$442 Total: $34,758
Prin. Invest.: M MACLOW
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2493 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4513**
PARALLEL MULTISCALE ALGORITHMS FOR ASTROPHYSICAL F LUID DYNAMICS SIMULATIONS
02/04/1994 – 02/14/1997 FY97: $0 Total: $90,000
Prin. Invest.: M L NORMAN, D B GANNON
Tech. Officer: GSFC/J R FISCHER
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2667 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4514**
ADAPTIVE PARALLEL METHODS FOR REACTIVE FLUID DYNAMICS AND PARTICLE DYNAMICS
08/01/1994 – 07/31/1998 FY97: $0 Total: $90,000
Prin. Invest.: D BALSARA
Tech. Officer: GSFC/J R FISCHER
CASE Category: 11 – ASTRONOMY

NAG 5 2746 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4515**
INTERCOMPARISON OF WIND AND TEMPERATURE MEASURED BY UARS AND BY UNIV. OF ILLINOIS NA WIND/TEMP.LIDA
10/06/1994 – 06/30/1997 FY97: $0 Total: $165,681
Prin. Invest.: X TAO
Tech. Officer: GSFC/C H JACKMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2925 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4516**
THEORETICAL STUDIES OF X-RAY AND GAMMA RAY EMISSION BY NEU-TRON STARS, WHITE DWARF AND BLACK..
03/22/1995 – 03/31/1998 FY97: $0 Total: $220,000
Prin. Invest.: F K LAMB
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2973 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4517**
HOT PLASMA IN THE SUPERGIANT SHELL LMC – 2
06/13/1995 – 12/31/1996 FY97: $0 Total: $27,773
Prin. Invest.: Y CHU
Tech. Officer: GSFC/N WHITE
CASE Category: 12 – CHEMISTRY

NAG 5 2988 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4518**
SNR AND STELLAR WIND HEATING OF SUPERBUBBLES
06/28/1995 – 07/14/1997 FY97: $0 Total: $47,773
Prin. Invest.: Y CHU
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3099 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4519**
A SYSTEMATIC STUDY OF EXPLOSIONS IN CORE COLLAPSE SUPERNO-VAE
10/05/1995 – 10/14/1997 FY97: $135,000 Total: $400,000
Prin. Invest.: F D SWESTY
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3246 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4520**
A COMPREHENSIVE INVESTIGATION OF THE STRUCTURING O F THE INTERSTELLAR MEDIUM BY MASSIVE STARS
05/29/1996 – 04/30/1997 FY97: $0 Total: $60,000
Prin. Invest.: Y CHU
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3350 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4521**
ISO GUEST OBSERVER SUPPORT FOR DATA ANALYSIS
08/09/1996 – 08/14/1998 FY97: $0 Total: $89,420
Prin. Invest.: M MELXNER
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3420 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4522**
ASTROPHYSICAL STUDIES OF COMPACT STARS ON THE SUPE RCOM-PUTER
10/01/1996 – 09/30/1997 FY97: $76,000 Total: $76,000
Prin. Invest.: S L SHAPIRO
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3552 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4523**
ANALYSIS AND EVELOPMENT DIODE BASED LASER SYTEMS F OR REMOTE SENSING
12/09/1996 – 11/30/1997 FY97: $53,914 Total: $53,914
Prin. Invest.: G C PAPEN, J J COLEMAN
Tech. Officer: GSFC/J R RALL, GSFC/J B ABSHIRE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3661 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4524**
THE LAND SURFACE COMPONENT OF THE CLIMATE SYSTEM:
12/19/1996 – 12/14/1997 FY97: $150,245 Total: $150,245
Prin. Invest.: P KUMAR
Tech. Officer: GSFC/R D KOSTER, GSFC/E T ENGMAN
CASE Category: 11 – ASTRONOMY

NAG 5 3923 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4525**
RADIATION HYDRODYNAMICS AND THE CHEMICAL
02/19/1997 – 02/14/1998 FY97: $73,880 Total: $73,880
Prin. Invest.: M L NORMAN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4044 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4526**
ASSESSING THE ROLE OF COUPLING BETWEEN CHEMISTRY A
03/17/1997 – 12/31/1997 FY97: $95,176 Total: $95,176
Prin. Invest.: D J WUEBGLES
Tech. Officer: GSFC/J A KAYE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4228 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4527**
ACCESSING SPACE SCIENCE DATA USING THE INTERNET
04/14/1997 – 03/31/1998 FY97: $170,000 Total: $170,000
Prin. Invest.: M MCGRATH
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 4292 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4528**
RADIO INTERFEROMETRIC STUDIES OF COMETS
04/15/1997 – 12/31/1997 FY97: $50,000 Total: $50,000
Prin. Invest.: D E SNYDER
Tech. Officer: GSFC/W HUEBNER
CASE Category: 11 – ASTRONOMY

NAG 5 4414 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4529**
"MODELING STUDIES TO REDUCE UNCERTAINTIES IN EVALU HSCT AIRCRAFT EFFECTS ON THE GLOBAL ATMOSPHERE"
05/06/1997 – 04/30/1998 FY97: $60,000 Total: $60,000
Prin. Invest.: D J WUEBBLES
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4421 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4530**
FAST SPECTROSCOPY OF Z SOURCES; CONTINUED MONITORI FROM GRO J1744–28; FAST TIMING AND SPECTROSCOPY O
05/30/1997 – 05/31/1998 FY97: $20,500 Total: $20,500
Prin. Invest.: F LAMB
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4500 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4531**
CELLULAR EVOLUTION & THE STRUCTURE OF THE ARCHAEL
05/06/1997 – 12/31/1997 FY97: $136,660 Total: $136,660
Prin. Invest.: D R WOESE
Tech. Officer: GSFC/M MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 4732 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4532**
FAST TIMING OF Z SOURCES $10,000 AND FAST TIMING A SOURCES $20,000
06/04/1997 – 06/14/1998 FY97: $30,000 Total: $30,000
Prin. Invest.: F K LAMB
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4793 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4533**
ROSAT HRI IMAGE OF THE EXTREMELY METAL–DEFICIENT D ROSAT HRI IMAGE OF BARRED GALAXIES.
06/19/1997 – 06/30/1998 FY97: $4,900 Total: $4,900
Prin. Invest.: D BOMANS
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 4858 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4534**
REMOTE SENSING OF CANOPY PROPERTIES FOR A FOREST U CO2 ENRICHMENT
07/08/1997 – 05/31/1998 FY97: $102,299 Total: $102,299
Prin. Invest.: D DELUCIA
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4863 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4535**
HRI SURVEY OF THE LARGE MAGNELLANIC CLOUD
06/17/1997 – 05/31/1998 FY97: $14,099 Total: $14,099
Prin. Invest.: Y CHU
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 5087 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4536**
INTERFEROMETRIC RADAR OBSERVATIONS OF MID–LATITUDE SPORADIC–E ECHOES
06/25/1996 – 05/31/1998 FY97: $70,000 Total: $130,000
Prin. Invest.: F KUDEKI
Tech. Officer: GSFC/L W GURKIN
CASE Category: 13 – PHYSICS

NAG 8 976 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4537**
THE ROLE OF SOLVATION FORCES IN PROTEIN CRYSTALLIZ ATION IN MICROGRAVITY
06/29/1993 – 04/30/1997 FY97: $0 Total: $500,000
Prin. Invest.: E B VAN SWOL, C F ZUKOSKI
Tech. Officer: MSFC/M PUSEY, MSFC/R SNYDER
CASE Category: 43 – CHEMICAL ENGR

NAG 8 1249 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4538**
ADAPTIVE GRID METHODS FOR PHASE FIELD MODELS OF MICROSTRUCTURE DEVELOPMENT
04/16/1996 – 04/15/1998 FY97: $60,000 Total: $180,000
Prin. Invest.: J A DANTZIG
Tech. Officer: MSFC/C TALLEY, MSFC/R W ALLEN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1376 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4539**
R/S "PARTICLE INTERACTION POTENTIALS & PROTEIN CRYSTAL QUALITY UNDER DR. CHARLES F. ZUKOSKI."
07/01/1997 – 11/30/1997 FY97: $71,000 Total: $71,000
Prin. Invest.: C F ZOKOSKI, NONE
Tech. Officer: MSFC/J R ROGERS, MSFC/J P DOWNEY
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 1104 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4540**
MICROPHYSICAL THEORY OF DIFFUSE ASTRONOMICAL ENVIRONMENTS
06/01/1987 – 09/30/1996 FY97: $0 Total: $531,000
Prin. Invest.: W D WATSON
Tech. Officer: HQ/F C GILLETT, HQ/R V STACHNIK
CASE Category: 11 – ASTRONOMY

NAGW 1131 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4541**
RADIO ASTRONOMICAL STUDIES OF COMETS
07/01/1987 – 12/31/1996 FY97: $0 Total: $491,280
Prin. Invest.: L E SNYDER
Tech. Officer: HQ/H C BRINTON, HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NAGW 1729 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4542**
DYNAMICS OF STRATOSPHERIC PLANETARY WAVES
03/27/1989 – 02/28/1996 FY97: $0 Total: $296,564
Prin. Invest.: W A ROBINSON
Tech. Officer: HQ/R D MCPETERS, HQ/M J PRATHER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 2554 UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN **4543**
NAGW-2554/UNIV ILLINOIS/ARCHAEBACTERIA AND THE EVOLUTION OF THE CELL
06/10/1991 - 12/31/1996 FY97: $0 Total: $734,324
Prin. Invest.: C R WOESE
Tech. Officer: HQ/J D RUMMEL
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAGW 4244 UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN **4544**
SUPPORT FOR LARGE DATA SETS IN EOSDIS
01/31/1995 - 09/30/1997 FY97: $0 Total: $885,051
Prin. Invest.: M FOLK
Tech. Officer: HQ/R S MCGINNIS
CASE Category: 22 - COMPUTER SCIENCE

NAGW 4387 UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN **4545**
ASSESSING THE ROLE OF COUPLING BETWEEN CHEMISTRY AND CLIMATE
04/06/1995 - 12/31/1996 FY97: $0 Total: $181,110
Prin. Invest.: D J WUEBBLES
Tech. Officer: HQ/J A KAYE, HQ/R A SCHIFFER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAGW 4724 UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN **4546**
DETERMINATION OF AN INFRARED REFERENCE FRAME
08/28/1995 - 08/31/1997 FY97: $0 Total: $34,135
Prin. Invest.: E C SUTTON
Tech. Officer: HQ/R A STACHNIK
CASE Category: 11 - ASTRONOMY

NAGW 5247 UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN **4547**
CHARACTERIZING MULTISCALE INTERACTION OF HYDROLOGI C PROCESSES USING MULTISENSOR SATELLITE DATA
10/18/1996 - 09/30/1997 FY97: $141,095 Total: $141,095
Prin. Invest.: P LUMAR, NONE
Tech. Officer: HQ/G ASRAR, HQ/R C HARRISS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAS 1 19950 UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN **4548**
SCIENCE SUPPORT TO THE LITE SCIENCE TEAM
05/19/1993 - 11/18/1999 FY97: $65,000 Total: $291,137
Prin. Invest.: C S GARDNER
Tech. Officer: LARC/G L MADDREA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 1 19957 UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN **4549**
SAGE II SCIENTIFIC INVESTIGATIONS
05/13/1993 - 05/12/1996 FY97: -$4,090 Total: $130,910
Prin. Invest.: N SONG
Tech. Officer: LARC/G L MADDREA, LARC/M P MC CORMAC
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 3 97011 UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN **4550**
NRA SWITCH FROM GRANT TO CONTRACT-SIMULATION OF ICING CLOUDS ON TEST MODELS
02/25/1997 - 08/01/2000 FY97: $40,005 Total: $40,005
Prin. Invest.: E LOTH
Tech. Officer: LERC/T B IRVINE
CASE Category: 41 - AERONAUTICAL ENGNR

NCA 1 148 UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN **4551**
AGATE FUNDING —1996.
12/17/1996 - 12/31/1996 FY97: $10,000 Total: $10,000
Prin. Invest.: G LINTERN
Tech. Officer: LARC/D DURHAM
CASE Category: 41 - AERONAUTICAL ENGNR

NCA 3 110 UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN **4552**
JOINT SPONSORED RESEARCH AGREEMENT ICING RESERACH
02/22/1996 - 02/22/1997 FY97: $80,000 Total: $107,800
Prin. Invest.: M BRAGG
Tech. Officer: LERC/T H BOND
CASE Category: 41 - AERONAUTICAL ENGNR

NCC 2 5126 UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN **4553**
MODELING OF DUCTILE CRACK GROWTH IN THREE-DIMENSIO NS INCLUDING THERMALLOAD EFFECTS
04/14/1995 - 04/15/1997 FY97: $0 Total: $79,863
Prin. Invest.: R H DODDS, JR.
Tech. Officer: ARC/R HAMPTON
CASE Category: 44 - CIVIL ENGR

NCC 2 8027 UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN **4554**
IPA FOR JOHN P ZIEBARTH
08/08/1997 - 08/31/1998 FY97: $12,000 Total: $12,000
Prin. Invest.: J P ZIEBARTH
Tech. Officer: ARC/H MCDONALD
CASE Category: 99 - MULTI INTERDISCPL, OTHER

NCC 3 408 UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN **4555**
THE EFFECTS OF THE CRITICAL INCE ACRETION OF AIRFO IL AND WING PERFORMANCE
01/24/1995 - 11/30/1996 FY97: $0 Total: $77,973
Prin. Invest.: M S SELIG, M B BRAGG
Tech. Officer: LERC/J SHIN
CASE Category: 41 - AERONAUTICAL ENGNR

NCC 3 509 UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN **4556**
THE EFFECT OF THE CRITICAL ICE ACCRETION ON AIRFOI L & WING PERFORMANCE
10/25/1996 - 10/24/1999 FY97: $50,449 Total: $50,449
Prin. Invest.: M S SELIG, M B BRAGG
Tech. Officer: LERC/H E ADDY, JR.
CASE Category: 41 - AERONAUTICAL ENGNR

NCC 5 106 UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN **4557**
DIGITAL LIBRARY
09/22/1994 - 09/22/1997 FY97: $784,302 Total: $2,146,302
Prin. Invest.: M FOLK
Tech. Officer: GSFC/N LAL
CASE Category: 99 - MULTI INTERDISCPL, OTHER

NCC 5 153 UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN **4558**
GRAND CHALLENGE RESEARCH
08/30/1996 - 08/30/1999 FY97: $559,000 Total: $849,000
Prin. Invest.: P SAYLOR
Tech. Officer: GSFC/J R FISCHER
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NCC 8 90 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4559**
RESEARCH "MODELS OF MAGNETIC DAMPING FOR SEMICONDUCTOR CRYSTAL GROWTH IN MICROGRAVITY"
04/22/1996 – 04/21/1998 FY97: $50,000 Total: $150,000
Prin. Invest.: J S WALKER
Tech. Officer: MSFC/C R TALLEY, MSFC/R W ALLEN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NGT 40017 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4560**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
04/03/1991 – 09/30/1997 FY97: $0 Total: $2,319,483
Prin. Invest.: K R SIVIER
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51023 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4561**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/05/1993 – 06/30/1996 FY97: $0 Total: $66,000
Prin. Invest.: D A REED
Tech. Officer: ARC/M MOORE
CASE Category: 22 – COMPUTER SCIENCE

NGT 51051 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4562**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/19/1993 – 06/30/1996 FY97: $0 Total: $66,000
Prin. Invest.: M B BRAGG
Tech. Officer: LERC/F MONTEGANI
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51064 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4563**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/01/1993 – 06/30/1996 FY97: –$10,000 Total: $34,000
Prin. Invest.: F B VAN SWOL
Tech. Officer: HQ/B CARPENTER
CASE Category: 43 – CHEMICAL ENGR

NGT 51339 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4564**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/29/1994 – 07/31/1996 FY97: $0 Total: $44,000
Prin. Invest.: B W WAH
Tech. Officer: ARC/M MOORE
CASE Category: 45 – ELECTRICAL ENGR

NGT 51360 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4565**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/08/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: A J PEARLSTEIN
Tech. Officer: HQ/G A LESANE
CASE Category: 46 – MECHANICAL ENGR

NGT 51386 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4566**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/16/1995 – 06/30/1998 FY97: $0 Total: $44,000
Prin. Invest.: W D WASTON
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51392 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4567**
GSRP
07/31/1995 – 06/30/1998 FY97: $0 Total: $44,000
Prin. Invest.: A J PEARLSTEIN
Tech. Officer: HQ/G LESANE
CASE Category: 46 – MECHANICAL ENGR

NGT 51399 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4568**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/26/1995 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: D A REED
Tech. Officer: JPL/C HICKS
CASE Category: 22 – COMPUTER SCIENCE

NGT 70374 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4569**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
08/22/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: R B HABER
Tech. Officer: HQ/D K RUSSELL
CASE Category: 46 – MECHANICAL ENGR

NGT 1 52104 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4570**
GRADUATE STUDENT RESEARCHER PROGRAM (GSRP)
06/26/1995 – 06/30/1996 FY97: –$1 Total: $22,000
Prin. Invest.: M C BIGGS
Tech. Officer: LARC/C H ELDRED
CASE Category: 42 – ASTRONAUTICAL ENGR

NGT 2 52229 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4571**
OPTIMUM FORMULATIONS FOR LES
08/18/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: R D MOSER
Tech. Officer: ARC/A A WRAY
CASE Category: 46 – MECHANICAL ENGR

NGT 2 52231 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4572**
ADAPTIVE DYNAMIC SCHEDULING OF WIDE AREA COMPUTATI ONS BASED ON ROBUST ACQUISITION OF DISTRIBUTED...
08/28/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D A REED
Tech. Officer: ARC/K G STEVENS, ARC/C H SCHULBACH
CASE Category: 22 – COMPUTER SCIENCE

NGT 3 52308 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4573**
GRADUATE STUDENT RESEACHERS PROGRAM
07/25/1995 – 09/30/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: M B BRAGG
Tech. Officer: LERC/L SHAW
CASE Category: 46 – MECHANICAL ENGR

NGT 3 52325 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4574**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/04/1996 – 06/30/1997 FY97: $0 Total: $3,500
Prin. Invest.: M BRAGG
Tech. Officer: LERC/F MONTEGANI
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 12 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4575**
TUNABLE MULTIPLE WAVELENGTH SEMICONDUCTOR LASERS FOR OPTICAL REMOTE SENSING SYSTEMS
07/11/1995 – 07/14/1997 FY97: $0 Total: $44,000
Prin. Invest.: G C PAPPEN
Tech. Officer: GSFC/G A SOFFEN, GSFC/M A KRAINAK
CASE Category: 42 – ASTRONAUTICAL ENGR

NGT 5 14 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4576**
NARROW–BAND SURFACE PHOTOMETRY OF GALAXIES
07/15/1996 – 06/30/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: L A THOMPSON
Tech. Officer: GSFC/G A SOFFEN, GSFC/B WOODGATE
CASE Category: 11 – ASTRONOMY

NGT 5 30041 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4577**
CHARACTERIZING CLIMATIC SIGNATURES IN HYDRO–GEOMOR
10/17/1996 – 08/31/1997 FY97: $44,000 Total: $44,000
Prin. Invest.: P KUMAR
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 40030 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4578**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA
12/19/1996 – 01/31/1998 FY97: $380,000 Total: $380,000
Prin. Invest.: W C SOLOMON
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50034 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4579**
N–DIMENSIONAL QUADRATICALLY NONLINEAR CONTROL–ORIE RFACE FLOWS, CONSTRUCTED USING MEASURED
08/04/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: A PEARLSTEIN
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50149 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4580**
THEORY AND INTERPRETATION OF MASERS IN DISKS FOR S GSRP RECIPI-ENT:WALLIN BRADLEY
09/10/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D W WATSON
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 8 52827 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4581**
GRAD STUDENT RESEARCH PROGRAM FOR TIMOTHY MORTHLAND
09/20/1996 – 07/04/1999 FY97: $22,000 Total: $44,000
Prin. Invest.: T E MORTHLAND
Tech. Officer: MSFC/F SZOFRAN
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 9 4 UNIVERSITY OF ILLINOIS AT URBANA–CHAMPAIGN **4582**
ADAPTION OF GENETIC ALGORITHMS TO NOISY ENVIRONMEN TS
05/31/1995 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: D E GOLDBERG
Tech. Officer: JSC/D G SICKOREZ
CASE Category: 22 – COMPUTER SCIENCE

NAG 8 1207 WESTERN ILLINOIS UNIVERSITY **4583**
JOVE
09/25/1995 – 08/31/1998 FY97: $17,200 Total: $30,504
Prin. Invest.: L H TICHENOR
Tech. Officer: MSFC/D SIX
CASE Category: 99 – MULTI INTERDISCPL, OTHER

INDIANA

NAG13 34 INDIANA STATE UNIVERSITY **4584**
REMOTE SENSING TECHNOLOGY TRANSFER TO GRADES K–12 WITH A FOCUS ON PREPARATION FOR SSTPINITIATIVE
09/22/1995 – 11/24/1998 FY97: $250,152 Total: $472,904
Prin. Invest.: P MAUSEL*Prin. Invest.:* NONE
Tech. Officer: SSC/B DAVIS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 3 1577 INDIANA UNIV.–PURDUE U. AT INDIANAPOLIS **4585**
PARALLEL COMPUTATION OF UNSTEADY FLOWS ON AN NETW ORK OF WORKSTATIONS
02/28/1994 – 05/06/1997 FY97: $17,000 Total: $240,000
Prin. Invest.: A ECER
Tech. Officer: LERC/R A BLECH
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 4917 INDIANA UNIV.–PURDUE U. AT INDIANAPOLIS **4586**
MODULATION OF BONE REMODELING VIA MECHANICALLY–ACT
07/18/1997 – 07/14/1998 FY97: $118,884 Total: $118,884
Prin. Invest.: D DUNCAN
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 2 594 INDIANA UNIV.–PURDUE U. AT INDIANAPOLIS **4587**
CELL KINETIC AND HISTOMORPHOMETRIC ANALYSIS OF MIC ROGRAVITA-TIONAL OSTEOPENIA
03/15/1989 – 06/30/1997 FY97: $0 Total: $530,742
Prin. Invest.: W E ROBERTS
Tech. Officer: ARC/E M HOLTON
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 1941 INDIANA UNIVERSITY – BLOOMINGTON **4588**
APPLICATION OF GLOBAL POSITIONING SYSTEM MEASUREME NTS TO CONTINENTAL COLLISION IN THE PAMIR–TIEN. .
03/12/1992 – 12/31/1997 FY97: $0 Total: $318,100
Prin. Invest.: M W HAMBURGER
Tech. Officer: GSFC/B G BILLS
CASE Category: 11 – ASTRONOMY

NAG 5 2781 INDIANA UNIVERSITY – BLOOMINGTON **4589**
SIMULATIONS OF GLOBULAR CLUSTER, GALACTIC NUCLEUS, AND GAL-AXY CLUSTER DYNAMICAL EVOLUTION
11/07/1994 – 01/14/1998 FY97: $0 Total: $282,800
Prin. Invest.: H N COHN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3283 INDIANA UNIVERSITY – BLOOMINGTON **4590**
ACCRETION MONITORING DURING THE SUPERCYCLE OF V115 9 ORI
07/02/1996 – 01/31/1998 FY97: $0 Total: $10,977
Prin. Invest.: R K HONEYCUTT
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3413 INDIANA UNIVERSITY – BLOOMINGTON **4591**
ACCRETION MONITORING DURING THE SUPERCYCLE OF V115 9 ORI.
09/15/1996 – 03/14/1998 FY97: $0 Total: $5,727
Prin. Invest.: R HONEYCUTT
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 4295 INDIANA UNIVERSITY – BLOOMINGTON **4592**
3D SIMULATIONS OF GRAVITATIONAL INSTABILITIES IN P PROTOSTELLAR DISKS
04/04/1997 – 06/30/1998 FY97: $35,000 Total: $35,000
Prin. Invest.: D H DURISEN
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4342 INDIANA UNIVERSITY – BLOOMINGTON **4593**
SIMULATIONS OF BALLISTIC TRANSPORT IN SATURN'S RIN
04/21/1997 – 04/30/1998 FY97: $32,988 Total: $32,988
Prin. Invest.: D H DURISEN
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4409 INDIANA UNIVERSITY – BLOOMINGTON **4594**
ACCRETION GEOMETRY AND EMISSION SITES IN THE ECLIP OBJECTS
05/12/1997 – 05/14/1998 FY97: $30,877 Total: $30,877
Prin. Invest.: T STEIMAN–CAMERON
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4618 INDIANA UNIVERSITY – BLOOMINGTON **4595**
PETROLOGIC EVOLUTION OF LUNAR AND METEORITE PARENT
05/19/1997 – 02/28/1998 FY97: $30,000 Total: $30,000
Prin. Invest.: D BASU
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 5058 INDIANA UNIVERSITY – BLOOMINGTON **4596**
HIGH ENERGY ANTIMATTER TELESCOPE (HEAT) FUNDING FOR THE FIRST YEAR OF RESEARCH
05/01/1996 – 11/30/1997 FY97: $168,000 Total: $296,000
Prin. Invest.: J MUSSER
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5167 INDIANA UNIVERSITY – BLOOMINGTON **4597**
GPS MEASUREMENTS OF LOCALIZED DEFORMATION IN THE T
07/17/1997 – 07/14/1998 FY97: $31,000 Total: $31,000
Prin. Invest.: M W HAMBURGER
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1035 INDIANA UNIVERSITY – BLOOMINGTON **4598**
SUPERCONDUCTING MAGNET INSTRUMENT
02/15/1987 – 11/30/1996 FY97: $0 Total: $917,000
Prin. Invest.: R M HEINZ
Tech. Officer: HQ/M M MELLOTT, HQ/W V JONES
CASE Category: 13 – PHYSICS

NAGW 3399 INDIANA UNIVERSITY – BLOOMINGTON **4599**
NUMERICAL 3D SIMULATIONS OF GRAVITATIONAL INSTABIL ITIES IN PRO-TOSTELLAR DESKS AND THE NEBULA
03/15/1993 – 06/30/1997 FY97: $0 Total: $156,878
Prin. Invest.: R DURISON
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3404 INDIANA UNIVERSITY – BLOOMINGTON **4600**
PETROLOGIC EVOLUTION OF LUNAR AND METEORITE PARENT BODY REGOLITH
02/23/1993 – 09/15/1997 FY97: $0 Total: $118,965
Prin. Invest.: A BASU
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3718 INDIANA UNIVERSITY – BLOOMINGTON **4601**
TECHNOLOGY DEVELOPMENT FOR HIGH RESOLUTION GAMMA–R AY SPECTROSCOPY
10/22/1993 – 09/30/1997 FY97: $0 Total: $200,000
Prin. Invest.: D FRIESEL, NONE
Tech. Officer: HQ/L J KALUZIENSKI, HQ/A N BUNNER
CASE Category: 11 – ASTRONOMY

NAGW 4587 INDIANA UNIVERSITY – BLOOMINGTON **4602**
SIMULATIONS OF BALLISTIC TRANSPORT IN SATURN'S RIN GS
07/06/1995 – 06/30/1997 FY97: $0 Total: $65,064
Prin. Invest.: R DURISEN
Tech. Officer: HQ/H BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 4638 INDIANA UNIVERSITY – BLOOMINGTON **4603**
MODULATION OF BONE REMODELLING VIA MECHANICALLY AC TIVATED ION CHANNELS
07/11/1995 – 11/30/1997 FY97: $125,807 Total: $265,019
Prin. Invest.: R L DUNCAN
Tech. Officer: HQ/V THORNE
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4730 INDIANA UNIVERSITY – BLOOMINGTON **4604**
MECHANISM OF PHYTOCHROME REGULATION OF SHOOT GRAVITROPISM IN ARABIDOPSIS
09/05/1995 – 06/30/1997 FY97: $82,000 Total: $164,000
Prin. Invest.: D P HANGARTER
Tech. Officer: HQ/V SCHEIDER, HQ/V THORNE
CASE Category: 43 – CHEMICAL ENGR

NAGW 5107 INDIANA UNIVERSITY – BLOOMINGTON **4605**
ISOTOPIC BIOGEOCHEMISTRY
06/10/1996 – 05/30/1997 FY97: $0 Total: $150,000
Prin. Invest.: J M HAYES
Tech. Officer: HQ/M MEYER, HQ/H C BRINTON
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 870 INDIANA UNIVERSITY – BLOOMINGTON **4606**
SPACELFIGHT EFFECTS ON MAMMALIAN DEVELOPMENT
07/11/1994 – 05/31/1998 FY97: $0 Total: $718,713
Prin. Invest.: J R ALBERTS, A RONCA
Tech. Officer: ARC/D A REISS–BUBENHIEM, ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 30125 INDIANA UNIVERSITY – BLOOMINGTON **4607**
GLOBAL CHANGE FELLOWSHIP PROGRAM
10/30/1992 – 08/31/1996 FY97: –$48 Total: $65,952
Prin. Invest.: K L LECKRONE
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 30248 INDIANA UNIVERSITY – BLOOMINGTON **4608**
GLOBAL CHANGE FELLOWSHIP AWARD
09/22/1994 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: E E MORAN
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 51403 INDIANA UNIVERSITY – BLOOMINGTON **4609**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/30/1995 – 08/27/1998 FY97: $0 Total: $44,000
Prin. Invest.: V E VIOLA
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 5 50162 INDIANA UNIVERSITY – BLOOMINGTON **4610**
STUDY OF THE DIFFERENCES BETWEEN THE RADIATION DAM DETECTORS FABRICATED FROM N– AND P–TYPE GERMANIU
09/17/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: V E VIOLA
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 2612 INDIANA UNIVERSITY – SOUTH BEND **4611**
MONITORING THE MOST MASSIVE STARS 2) MAGNETICALLY CONTROLLED CIRCUMSTELLAR MATTER AMONG
06/13/1994 – 12/31/1997 FY97: $0 Total: $47,300
Prin. Invest.: S N SHORE
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NCC 3 317 MANCHESTER COLLEGE **4612**
INTERCALATION OF GRAPHITE FIBERS FOR SPACE POWER A PPLICATIONS
09/01/1993 – 02/13/1998 FY97: $25,020 Total: $106,218
Prin. Invest.: E G MILLER
Tech. Officer: LERC/C HUNG
CASE Category: 12 – CHEMISTRY

NAG 1 157 PURDUE UNIVERSITY **4613**
INTERACTIVE AIRCRAFT FLIGHT CONTROL AND AEROELASTIC STABILIZATION
02/26/1981 – 04/30/1997 FY97: $0 Total: $808,393
Prin. Invest.: T A WEISSHAAR, D K SCHMIDT
Tech. Officer: LARC/R C SCOTT
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1323 PURDUE UNIVERSITY **4614**
MODELLING DAMAGE PROGRESSION IN COMPOSITE LAMINATE D STRUCTURES
08/06/1991 – 05/31/1997 FY97: $0 Total: $279,866
Prin. Invest.: C T SUN
Tech. Officer: LARC/J T WANG, LARC/J M HOUSNER
CASE Category: 46 – MECHANICAL ENGR

NAG 1 1509 PURDUE UNIVERSITY **4615**
EVALUATION OF SUBGRID–SCALE MODELS FOR LARGE EDDY SIMULATION OF COMPRESSIBLE TURBULENT FLOWS
05/06/1993 – 11/05/1995 FY97: –$44 Total: $48,551
Prin. Invest.: A BLAISDELL
Tech. Officer: LARC/T B GATSKI
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1601 PURDUE UNIVERSITY **4616**
DEVELOPMENT OF A METHODOLOGY FOR ANALYZING PROPULS ION SYSTEM EFFECTIVENESS OVER A TRAJECTORY
03/14/1994 – 10/31/1997 FY97: $80,521 Total: $164,005
Prin. Invest.: S N MURTHY
Tech. Officer: LARC/J P WEIDNER, LARC/G Y ANDERSON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1660 PURDUE UNIVERSITY **4617**
USE OF KIRCHHOFF'S METHOD IN JET AEROACOUSTICS MY 1/3
12/21/1994 – 07/14/1997 FY97: $1 Total: $84,401
Prin. Invest.: A S LYRINTZIO
Tech. Officer: LARC/K R MENDOWS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1749 PURDUE UNIVERSITY **4618**
APPLICATION OF THE SPECTRAL ELEMENT METHOD TO INTERIOR NOISE PROBLEMS
08/11/1995 – 12/31/1997 FY97: $19,825 Total: $52,027
Prin. Invest.: J F DOYLE
Tech. Officer: LARC/S A RIZZI
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1794 PURDUE UNIVERSITY **4619**
BOUNDRY–LAYER TRANSITION DETECTION IN CRYOGENIC WIND TUNNELL USING FLUORESCENT PAINT
01/23/1996 – 01/22/1998 FY97: $75,001 Total: $132,012
Prin. Invest.: J P SULLIVAN
Tech. Officer: LARC/B T UPCHURCH, LARC/M MITCHELL
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 854 PURDUE UNIVERSITY **4620**
HIGH–LIFT AERODYNAMICS
07/16/1993 – 08/31/1997 FY97: $25,000 Total: $179,783
Prin. Invest.: J P SULLIVAN, S P SCHNEIDER
Tech. Officer: ARC/D R SATRAN, ARC/D J KOGA
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 1001 PURDUE UNIVERSITY **4621**
HYPOGRAVITY'S EFFECT ON THE LIFE CYCLE OF JAPANESE QUAIL
08/23/1995 – 06/30/1997 FY97: $0 Total: $116,283
Prin. Invest.: P Y HESTER
Tech. Officer: ARC/C M WINGET, ARC/G C JAHNS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 3 1038 PURDUE UNIVERSITY **4622**
MEAS OF SPECIES CONCT & TEMP IN AXISSYM FLAMES BY LASER–INDUCED FLOURESCENCE
05/03/1989 – 12/17/1996 FY97: –$2 Total: $1,013,633
Prin. Invest.: N M LAURENDEAU
Tech. Officer: LERC/Y R HICKS
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1291 PURDUE UNIVERSITY **4623**
SUPPORT OF THE 10TH NATIONAL SYMPOSIUM OF AIR BREA THING ENGINES
07/31/1991 – 09/30/1998 FY97: $12,000 Total: $26,992
Prin. Invest.: S N MURTHY
Tech. Officer: LERC/D N BOWDITCH
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1629 PURDUE UNIVERSITY **4624**
TECHNICAL SUPPORT FOR THE PUBLICATION OF THE AEROS PACE STRUCTURAL METALS HANDBOOOK
06/24/1994 – 03/04/1997 FY97: $0 Total: $109,485
Prin. Invest.: H MINDLIN
Tech. Officer: LERC/J R REAGAN
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1730 PURDUE UNIVERSITY **4625**
3–D UNSTEADY AERODYNAMICS AND AEROELASTICITY OF AD VANCED TURBOPROPS
02/01/1995 – 11/30/1997 FY97: $77,104 Total: $292,255
Prin. Invest.: S FLEETER
Tech. Officer: LERC/D H BUFFUM
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1766 PURDUE UNIVERSITY **4626**
HIGH REYNOLDS NUMBER EXPERIMENTS ON BYPASS DUCT AN D STRICT FLOWS
07/14/1995 – 10/31/1997 FY97: $72,338 Total: $194,748
Prin. Invest.: S H COLLICOTT, J P SULLIVAN
Tech. Officer: LERC/K J KACYNSKI
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1782 PURDUE UNIVERSITY **4627**
INVESTIGATION OF NITRIC OXIDE PRODUCTION IN HIGH–P RESSURE COUNTERFLOW DIFFUSION FLAMES BY LASER–IND
08/23/1995 – 12/31/1998 FY97: $40,000 Total: $150,021
Prin. Invest.: N M LAURENDEAU
Tech. Officer: LERC/Y R HICKS
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1814 PURDUE UNIVERSITY **4628**
PRESSURE AND TEMPERATURE MEASUREMENT OF ROTATING M ACHINERY USING FLUORESCENT PAINTS
04/16/1996 – 04/15/1999 FY97: $75,000 Total: $120,000
Prin. Invest.: J P SULLIVAN
Tech. Officer: LERC/M P WERNET
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1860 PURDUE UNIVERSITY **4629**
FORCED OSCILLATIONS OF PENDANT AND SESSIL DROPS
06/03/1996 – 06/02/2000 FY97: $41,000 Total: $111,000
Prin. Invest.: D A BASARAN
Tech. Officer: LERC/J S LING, LERC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 3 1898 PURDUE UNIVERSITY **4630**
PARALLEL IMPLEMENTATION OF CONSTRAINED OPTIMIZATIO N TECHNOLOGY ON WORKSTATIONS WITH APPLICATIONTO
09/05/1996 – 09/04/1999 FY97: $0 Total: $15,000
Prin. Invest.: S S RAO
Tech. Officer: LERC/D R REDDY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 4 114 PURDUE UNIVERSITY **4631**
NASA ACADEMY IN AERONAUTICS A PROPOSAL TO ESTABLISH THE NASA ACADEMY IN
12/31/1996 – 12/31/1997 FY97: $42,734 Total: $42,734
Prin. Invest.: D ANDRISANI
Tech. Officer: DFRC/E L DUKE, DFRC/K GUPTA
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 2391 PURDUE UNIVERSITY **4632**
PSR 0656+14: A COOLING NEUTRON STAR
10/13/1993 – 10/14/1995 FY97: –$29 Total: $35,031
Prin. Invest.: J P FINLEY
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 2492 PURDUE UNIVERSITY **4633**
OBSERVATIONS OF PULSATING EARLY B STARS: A SEARCH FOR X–RAY VARIABILITY
02/03/1994 – 08/14/1997 FY97: $0 Total: $38,836
Prin. Invest.: J P FINLEY
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2742 PURDUE UNIVERSITY **4634**
VELA–LIKE PULSARS: A BRIDGE BETWEEN YOUNG AND OLD
10/06/1994 – 04/14/1997 FY97: $0 Total: $10,000
Prin. Invest.: J FINLEY
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3118 PURDUE UNIVERSITY **4635**
GEOPHYSICAL CHARACTERIZATION OF SOME TERRANES AND THE GEOPHYSICAL MODELING OF CANDIDATE SUTURE ZONES
10/26/1995 – 10/31/1997 FY97: $20,000 Total: $38,886
Prin. Invest.: S KING
Tech. Officer: GSFC/R A LANGEL, GSFC/P T TAYLOR
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3294 PURDUE UNIVERSITY **4636**
4U 1223–62/4U 1907 + 09: SXRBS WITH PECULIAR X–RAY BEHAVIOR; A DETAILED STUDY OF THE CRAB'S TWIN..
07/17/1996 – 01/31/1998 FY97: $0 Total: $27,740
Prin. Invest.: J FINLEY
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3426 PURDUE UNIVERSITY **4637**
STRUCTURE IN THE DIFFUSE X–RAY BACKGROUND ALONG TH
09/30/1996 – 09/30/1997 FY97: $17,726 Total: $17,726
Prin. Invest.: J P FINLEY
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3589 PURDUE UNIVERSITY **4638**
GAMMA RAY OBSERVATIONS OF PSR B1055–52 AND OTHER S
02/11/1997 – 02/14/1998 FY97: $2,280 Total: $2,280
Prin. Invest.: J FINLEY
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3833 PURDUE UNIVERSITY **4639**
THE ENIGMATIC CLOCK IN 2S 0114+65
02/11/1997 – 02/14/1998 FY97: $16,500 Total: $16,500
Prin. Invest.: J P FINLEY
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3965 PURDUE UNIVERSITY **4640**
STUDY ON APPLICATIONS OF SATELLITE DATA TO UNDERST SEA INTER-ACTIONS
03/03/1997 – 01/31/1998 FY97: $94,112 Total: $94,112
Prin. Invest.: C A CLAYSON
Tech. Officer: GSFC/R KAKAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3975 PURDUE UNIVERSITY **4641**
RESEARCH ON METHODS FOR ANALYSIS OF MULTI-SPECTRAL DATA
02/26/1997 – 01/31/1998 FY97: $177,641 Total: $177,641
Prin. Invest.: D A LANGREBE
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3992 PURDUE UNIVERSITY **4642**
THE ANALYSIS AND PARAMETERIZATION OF SHORTWAVE RAD ATMOSPHERES
02/26/1997 – 02/28/1998 FY97: $95,000 Total: $95,000
Prin. Invest.: D HARSHVARDHAN
Tech. Officer: GSFC/K H BERGMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4304 PURDUE UNIVERSITY **4643**
CHEMICAL STUDIES OF METEORITES
04/14/1997 – 02/28/1998 FY97: $80,000 Total: $80,000
Prin. Invest.: D E LIPSCHUTZ
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4481 PURDUE UNIVERSITY **4644**
INVESTIGATION OF THE HIGH ENERGY TAILS OF SOFT X-R COORDINATED OBSERVATIONS OF TEV BL LAC OBJECTS
05/06/1997 – 04/30/1998 FY97: $25,851 Total: $25,851
Prin. Invest.: J P FINLEY
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4819 PURDUE UNIVERSITY **4645**
LABORATORY STUDIES OF DIACETYLENE PHOTOCHEMISTRY:R ULES IN TITAN AND THE OUTER PLANETS' ATOMSPHERE
06/17/1997 – 05/31/1998 FY97: $83,000 Total: $83,000
Prin. Invest.: D ZWIER
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 1147 PURDUE UNIVERSITY **4646**
BIOLOGICAL PARTICLE SEPARATION IN LOW GRAVITY
08/03/1995 – 08/02/1998 FY97: $138,360 Total: $334,751
Prin. Invest.: J MORRE
Tech. Officer: MSFC/L KARR
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 8 1233 PURDUE UNIVERSITY **4647**
RESEARCH "DEVELOPMENT OF ATMOSPHERIC PHYSICAL RET. USING SATELLITE DATA FROM MICROWAVE SOUNDING,ETC
12/04/1996 – 12/03/1997 FY97: $49,915 Total: $49,915
Prin. Invest.: G W PETTY
Tech. Officer: MSFC/B L APENTA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 2329 PURDUE UNIVERSITY **4648**
BIOMASS PRODUCTIVITY AND SUSTAINABILITY OF BIOREGE NERATIVE LIFE SUPPORT SYSTEMS
04/11/1991 – 12/31/1997 FY97: $75,019 Total: $5,436,519
Prin. Invest.: C A MITCHELL
Tech. Officer: HQ/R J WHITE
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 3019 PURDUE UNIVERSITY **4649**
LABORATORY STUDIES OF C4H2 AND NITRILE PHOTOCHEMIS TRY
03/20/1992 – 02/28/1997 FY97: $0 Total: $275,000
Prin. Invest.: T S ZWIER
Tech. Officer: HQ/H C BRINTON
CASE Category: 11 – ASTRONOMY

NAGW 3396 PURDUE UNIVERSITY **4650**
CHEMICAL STUDIES OF METEORITES
03/09/1993 – 06/30/1997 FY97: $0 Total: $275,500
Prin. Invest.: M E LIPSCHUTZ
Tech. Officer: HQ/H C BRINTON
CASE Category: 11 – ASTRONOMY

NAGW 3862 PURDUE UNIVERSITY **4651**
TOWARD SOIL SPATIAL INFORMATION SYSTEMS FOR GLOBAL MODELING AND ECOSYSTEM MANAGEMENT
03/09/1994 – 09/30/1997 FY97: $0 Total: $416,045
Prin. Invest.: M F BAUMGARDNER
Tech. Officer: HQ/G H MUCKLOW, HQ/G ASRAR
CASE Category: 22 – COMPUTER SCIENCE

NAGW 3924 PURDUE UNIVERSITY **4652**
RESEARCH ON METHODS FOR ANALYSIS OF MULTISPECTRAL EARTH OBSERVATIONAL DATA
04/14/1994 – 01/31/1997 FY97: $0 Total: $441,068
Prin. Invest.: D LANDGREBE
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3944 PURDUE UNIVERSITY **4653**
PASSIVE MICROWAVE ALGORITHM DEVELOPMENT AND EVALUA TION
04/20/1994 – 03/31/1997 FY97: $0 Total: $261,918
Prin. Invest.: G W PETTY
Tech. Officer: HQ/J C DODGE, HQ/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 5209 PURDUE UNIVERSITY **4654**
THE ANALYSIS & PARAMETERIZATION OF SHORTWAVE RADIA TION IN CLOUDY ATMOSPHERES
09/20/1996 – 12/31/1997 FY97: $45,000 Total: $45,000
Prin. Invest.: D HARSHVARDHAN
Tech. Officer: HQ/K H BERGMAN, HQ/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG13 38 PURDUE UNIVERSITY **4655**
EVALUATING REMOTELY SENSED DATA FOR AGRICULTURAL AND NAT-URAL RESOURCE APPLICATIONS
08/16/1996 – 09/30/1997 FY97: $92,141 Total: $137,141
Prin. Invest.: C J JOHANNSEN
Tech. Officer: SSC/C HILL
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 2 5208 PURDUE UNIVERSITY **4656**
PRESSURE AND TEMPERATURE SENSITIVE PAINT MEASUREME NTS ON ROTORS
04/02/1997 – 04/30/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: J P SULLIVAN
Tech. Officer: ARC/C TUNG
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 7 5 PURDUE UNIVERSITY **4657**
APPLICATION OF DYNAMICAL SYSTEMS THEORY TO THE DESIGN AND DEVELOPMENT OF SPACECRAFT TRAJECTORIES
08/19/1996 – 08/19/1998 FY97: $0 Total: $125,000
Prin. Invest.: D C HOWELL
Tech. Officer: NMO/K GALAL
CASE Category: 42 – ASTRONAUTICAL ENGR

NGT 40025 PURDUE UNIVERSITY **4658**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
04/25/1991 – 09/30/1997 FY97: $0 Total: $917,000
Prin. Invest.: D ANDRISANI, 11
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51077 PURDUE UNIVERSITY **4659**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/01/1993 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: G W PETTY
Tech. Officer: HQ/G LESANE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 51129 PURDUE UNIVERSITY **4660**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/14/1993 – 12/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: J M LONGUSKI
Tech. Officer: JPL/C HIX
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51284 PURDUE UNIVERSITY **4661**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/07/1994 – 01/31/1998 FY97: $0 Total: $66,000
Prin. Invest.: B BHARGAVA
Tech. Officer: HQ/D HOLLAND
CASE Category: 22 – COMPUTER SCIENCE

NGT 51659 PURDUE UNIVERSITY **4662**
GRAD STUD RES PROG
08/05/1996 – 09/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: J LONGUSKE
Tech. Officer: HQ/D HOLLAND
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51670 PURDUE UNIVERSITY **4663**
GRAD STUDENT RESEARCH PROGRAM
08/15/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: M K OKOS
Tech. Officer: HQ/G LESANE
CASE Category: 43 – CHEMICAL ENGR

NGT 90138 PURDUE UNIVERSITY **4664**
GSRP/UMF
09/26/1992 – 08/14/1996 FY97: $0 Total: $48,000
Prin. Invest.: M MARTINEZ
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 1 52142 PURDUE UNIVERSITY **4665**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/25/1996 – 06/30/1997 FY97: $1 Total: $22,001
Prin. Invest.: R J BERNHARD, M A FRANCHEK
Tech. Officer: LARC/D E COX, LARC/R J SILCOX
CASE Category: 46 – MECHANICAL ENGR

NGT 2 52225 PURDUE UNIVERSITY **4666**
TOPOLOGY DESIGN OF ROTOR BLADES FOR AERODYNAMICS & STRUCTURAL CONSIDERATIONS
07/29/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: W A CROSSLEY
Tech. Officer: ARC/S R KOTTAPALLI
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 4 52400 PURDUE UNIVERSITY **4667**
NEW H–2/H–INFINITY CONTROL SYNTHESIS FOR THE F–18 NEW AWARD
06/30/1995 – 07/31/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: A E FRAZHO
Tech. Officer: DFRC/K K GUPTA, DFRC/L VOELKER
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 28 PURDUE UNIVERSITY **4668**
TRAJECTORY DESIGN STRATEGIES FOR LIBRAITON POINT M ISSIONS THAT INCORPORATE INVARIANT MANIFOLDS
07/13/1996 – 07/31/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: K C HOWELL
Tech. Officer: GSFC/G A SOFFEN, GSFC/J COOLEY
CASE Category: 42 – ASTRONAUTICAL ENGR

NGT 5 30040 PURDUE UNIVERSITY **4669**
EFFECT OF ANTHROPOGENIC AEROSOL ON CLOUD OPTICAL P ROPERTIES: A CASE STUDY OF THE EASTERN U.S.
10/17/1996 – 08/31/1997 FY97: $66,000 Total: $66,000
Prin. Invest.: D HARSHVARDHAN
Tech. Officer: GSFC/G ASRAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 5 40043 PURDUE UNIVERSITY **4670**
THE NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PR
01/30/1997 – 02/28/1998 FY97: $205,000 Total: $205,000
Prin. Invest.: D ANDRISANI
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50110 PURDUE UNIVERSITY **4671**
GRADUATE STUDENT RESEARCHERS PROGRAM – STUDENT: R
09/11/1997 – 08/14/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J LONGUSKI
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50130 PURDUE UNIVERSITY **4672**
SEARCH FOR A SPECTROSCOPIC SIGNATURE OF TRIPLET ME
09/10/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: T ZWIER
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1561 UNIVERSITY OF NOTRE DAME **4673**
MULTIDISCIPLINARY DESIGN TECHNOLOGY DEVELOPMENT: A COMPARATIVE INVESTIGATION OF INTEGRATED AEROSPACE
12/20/1993 – 12/31/1997 FY97: $114,500 Total: $654,411
Prin. Invest.: J E RENAUD, S M BATILL, J B BROCKMAN
Tech. Officer: LARC/J SORIESKI, LARC/L L GREEN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1878 UNIVERSITY OF NOTRE DAME **4674**
WAKE DEVELOPMENT AND STRUCTURE IN ADVERSE PRESSURE GRADIENT
11/15/1996 – 11/14/1997 FY97: $52,033 Total: $52,033
Prin. Invest.: F O THOMAS, R C NELSON
Tech. Officer: LARC/J B ANDERS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 905 UNIVERSITY OF NOTRE DAME **4675**
AN EXPERIMENTAL INVESTIGATION OF THE FLOW FIELD PH YSICS OF HIGH-LIFT SYSTEMS
05/31/1994 – 05/31/1997 FY97: $0 Total: $162,646
Prin. Invest.: R C NELSON, F O THOMAS
Tech. Officer: ARC/D R SATRAN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 732 UNIVERSITY OF NOTRE DAME **4676**
EFFECTS OF NONUNIFORM FLOWS ON THE AERODYNAMICS & NOISE RADIATION OF ADVANCED TURBOPROPS
05/27/1986 – 09/30/1997 FY97: $0 Total: $720,918
Prin. Invest.: H M ATASSI
Tech. Officer: LERC/J F GROENEWEG
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1644 UNIVERSITY OF NOTRE DAME **4677**
COLLID PHYSICS IN MICROGRAVITY
07/11/1994 – 01/10/1997 FY97: $0 Total: $229,000
Prin. Invest.: A VARMA, P J MCGINN
Tech. Officer: LERC/K A WHITE
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 4 123 UNIVERSITY OF NOTRE DAME **4678**
A HIGH-LIFT FLOW PHYSICS EXPERIMENT USING THE NASA DRYDEN FLIGHT TEST FIXTURE
04/14/1997 – 04/14/1998 FY97: $60,000 Total: $60,000
Prin. Invest.: R NELSON, F THOMAS
Tech. Officer: DFRC/D FISHER
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 557 UNIVERSITY OF NOTRE DAME **4679**
ERROR CONTROL TECHNIQUES FOR SATELLITE AND SPACE COMMUNICTIONS
06/01/1985 – 02/28/1997 FY97: $0 Total: $646,820
Prin. Invest.: D COSTELLO
Tech. Officer: GSFC/W H MILLER, GSFC/J C MORAKIS
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 2998 UNIVERSITY OF NOTRE DAME **4680**
PROCESSOR-IN-MEMORY(PIM) BASED ARCHITECTURES FOR PETA (FL) OPS POTENTIAL MASSIVELY PARALLEL PROCESS
07/11/1995 – 07/14/1996 FY97: $0 Total: $59,950
Prin. Invest.: P M KOGGE
Tech. Officer: GSFC/J R FISCHER, GSFC/J E DORBAND
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 3123 UNIVERSITY OF NOTRE DAME **4681**
GAMMA-RAY BURSTS AND RELATIVISTIC MHD AROUND COELESCING NEUTRON STARS
10/17/1995 – 10/31/1997 FY97: $0 Total: $35,000
Prin. Invest.: G J MATHEWS
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3818 UNIVERSITY OF NOTRE DAME **4682**
INSTABILITIES IN COALESCING NEUTRON STARS
01/14/1997 – 01/14/1998 FY97: $30,000 Total: $30,000
Prin. Invest.: G J MATHEWS
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 4017 UNIVERSITY OF NOTRE DAME **4683**
DEGREE SCALE COSMIC MICROWAVE BACKGROUND ANISOTROP DEFECTS
02/26/1997 – 02/28/1998 FY97: $78,563 Total: $78,563
Prin. Invest.: D P BENNETT
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4573 UNIVERSITY OF NOTRE DAME **4684**
DETECTION OF EXTRA-SOLAR PLANETS VIA GRAVITATIONAL
09/05/1997 – 07/14/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: D BENNETT
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 8 1064 UNIVERSITY OF NOTRE DAME **4685**
Y2BACUO2 SEGREGATION IN YBA2CU307-X DURING MELT TEXTRUING
06/14/1994 – 06/01/1997 FY97: $0 Total: $93,383
Prin. Invest.: P J MCGINN
Tech. Officer: MSFC/E C ETHRIDGE
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 8 1080 UNIVERSITY OF NOTRE DAME **4686**
OSCILLATORY CROSS-FLOW ELECTOPHORESIS
09/01/1994 – 08/31/1996 FY97: $0 Total: $100,000
Prin. Invest.: D T LEIGHTON
Tech. Officer: MSFC/T Y MILLER
CASE Category: 12 – CHEMISTRY

NCC 2 5128 UNIVERSITY OF NOTRE DAME **4687**
KEY TOPIC FOR HIGH-LIFT RESEARCH
05/02/1995 – 04/30/1997 FY97: $0 Total: $40,000
Prin. Invest.: R C NELSON, F O THOMAS
Tech. Officer: DFRC/D FISHER
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 3 325 UNIVERSITY OF NOTRE DAME **4688**
ANALYSIS OF FLUID–SOLID RESPONSES IN PARTIALLY CON FINED DET-ONATIONS
09/14/1993 – 05/31/1996 FY97: –$3,089 Total: $43,553
Prin. Invest.: J M POWERS
Tech. Officer: LERC/R M STUBBS
CASE Category: 42 – ASTRONAUTICAL ENGR

NCC 3 466 UNIVERSITY OF NOTRE DAME **4689**
FUNDAMENTAL PROCESSES OF ATOMIZATION IN FLUID–FLUI D FLOWS
04/16/1996 – 04/15/1998 FY97: $98,000 Total: $227,996
Prin. Invest.: M J MCCREADY, H C CHANG, D T LEIGHTON
Tech. Officer: LERC/J B MCGUILLEN
CASE Category: 49 – ENGINEERING, OTHER

NGT 30250 UNIVERSITY OF NOTRE DAME **4690**
GLOBAL CHANGE FELLOWSHIP AWARD
09/22/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: R G CARLTON
Tech. Officer: HQ/AC JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 1223 VALPARISO UNIVERSITY **4691**
ADP INFRARED STUDY OF TRANSITION LATE ASYMPTATIC GIANT
07/27/1989 – 09/30/1997 FY97: $15,000 Total: $159,200
Prin. Invest.: B J HRIVNAK
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2645 VALPARISO UNIVERSITY **4692**
UV CHROMOSPHERIC ACTIVITY IN COOL, SHORT–PERIOD CO NTACT BINARIES
07/12/1994 – 08/31/1997 FY97: $0 Total: $7,300
Prin. Invest.: B J HRIVNAK
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3346 VALPARISO UNIVERSITY **4693**
ISO SPECTROSCOPY OF PROTO–PLANETARY NEBULAE
08/12/1996 – 08/14/1998 FY97: $0 Total: $33,100
Prin. Invest.: B J HRIVNAK
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

IOWA

NAG 5 2999 DRAKE UNIVERSITY **4694**
MULTIPLE SHELLS AROUND WOLF–RAYET STARS SPACE– BASED ASTRO-METRIC OBSERVING
07/14/1995 – 07/31/1997 FY97: $0 Total: $68,400
Prin. Invest.: A O MARSTON
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 8 264 DRAKE UNIVERSITY **4695**
JOVE
12/08/1992 – 08/31/1997 FY97: $0 Total: $107,250
Prin. Invest.: A MARSTON, K KOPECKY
Tech. Officer: MSFC/F SIX
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 1222 DRAKE UNIVERSITY **4696**
JOVE
11/30/1995 – 08/31/1998 FY97: $15,000 Total: $44,500
Prin. Invest.: M D VALLE–BOHORQUEZ
Tech. Officer: MSFC/D SIX
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 1 1739 IOWA STATE UNIVERSITY **4697**
REAL–TIME SUBOPTIMAL FEEDBACK CONTROL USING NEIGHBORING OPTIMAL CONTROL
07/18/1995 – 10/31/1997 FY97: $0 Total: $78,267
Prin. Invest.: B L PIERSON
Tech. Officer: LARC/D D MOERDER, LARC/D B PRICE
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 1 1799 IOWA STATE UNIVERSITY **4698**
DEVELOPMENT OF A REAL TIME MAGNETO–OPTIC IMAGING SYSTEM AND ANALYSIS OF THE SELF NULLING EDDY
01/25/1996 – 01/24/1997 FY97: –$1 Total: $101,989
Prin. Invest.: W LORD, S NATH
Tech. Officer: LARC/M NAMKUNG
CASE Category: 45 – ELECTRICAL ENGR

NAG 1 1807 IOWA STATE UNIVERSITY **4699**
THEORETICAL/COMPUTATIONAL STUDIES OF HYPERSONIC LA MINAR VIS-COUS
02/14/1996 – 09/30/1997 FY97: $1 Total: $41,644
Prin. Invest.: G R INGER
Tech. Officer: LARC/P A GNOFFO
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1933 IOWA STATE UNIVERSITY **4700**
DEVELOPMENT OF ENHANCED X–RAY INSPECTION
05/21/1997 – 05/20/1998 FY97: $44,727 Total: $44,727
Prin. Invest.: J GRAY, J BASART
Tech. Officer: LARC/W P WINFREE, LARC/F R PARKER
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 2 776 IOWA STATE UNIVERSITY **4701**
NUMERICAL COMPUTATION OF THE CHEMICALLY REACTING F LOW AROUND THE NATIONAL AERO–SPACE PLANE
04/02/1992 – 01/31/1998 FY97: –$1 Total: $172,219
Prin. Invest.: J C TANNEHILL
Tech. Officer: ARC/T A EDWARDS, ARC/S L LAWRENCE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 909 IOWA STATE UNIVERSITY **4702**
STATISTICAL SENSOR VALIDATION IN LIFE SUPPORT SYST EMS
06/21/1994 – 07/31/1997 FY97: $0 Total: $147,391
Prin. Invest.: D K ROLLINS
Tech. Officer: ARC/C K FINN, ARC/H W JONES
CASE Category: 43 – CHEMICAL ENGR

NAG 3 1302 IOWA STATE UNIVERSITY **4703**
CAMPARISON OF SLOW– AND FAST–RESPONSE INST FLOW FI ELD MEAS IN A TRANSONIC AXIAL–FLOW COMPRESSOR STA
10/30/1991 – 05/31/1997 FY97: $34,914 Total: $250,246
Prin. Invest.: T H OKIISHI *Prin. Invest.:* NONE
Tech. Officer: LERC/K L SUDER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1318 IOWA STATE UNIVERSITY **4704**
ALGORITHMS FOR NON–UNIFORM RATIONAL B–SPLINE SURFA CE MODEL DEVELOPMENT
01/27/1992 – 02/05/1998 FY97: $46,061 Total: $269,559
Prin. Invest.: J H OLIVER, NONE
Tech. Officer: LERC/D P MILLER, LERC/A L EVANS
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1481 IOWA STATE UNIVERSITY **4705**
NURBS–BASED GEOMETRY FOR INTEGRATED STRUCTURAL ANA LYSIS
04/16/1993 – 07/12/1996 FY97: –$41 Total: $92,857
Prin. Invest.: J H OLIVER
Tech. Officer: LERC/S A THORP, LERC/A L EVANS
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1786 IOWA STATE UNIVERSITY **4706**
GENERALIZED GEOMETRIC MODELING FOR TURBOMACHINERY APPLICA- TION
09/15/1995 – 11/07/1997 FY97: $47,000 Total: $87,028
Prin. Invest.: J H OLIVER
Tech. Officer: LERC/D P MILLER, LERC/A L EVANS
CASE Category: 46 – MECHANICAL ENGR

NAG 3 2042 IOWA STATE UNIVERSITY **4707**
COMPARISON OF SLOW– AND FAST–RESPONSE INSTRUMENT F LOW FIELD MEASUREMENTS IN A TRANSONIC AXIAL–FLOW
04/29/1997 – 11/01/1997 FY97: $46,393 Total: $46,393
Prin. Invest.: T H OKIISM
Tech. Officer: LERC/K SUDER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 1519 IOWA STATE UNIVERSITY **4708**
DATA VALIDATION FOR TOTAL OZONE MAPPING SPECTROMET ER FOR SMALL–CLASS EXPLORER
04/02/1991 – 05/14/1998 FY97: $70,337 Total: $421,508
Prin. Invest.: J L STANFORD
Tech. Officer: GSFC/A J KRUEGER, GSFC/M R SCHOEBERL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2047 IOWA STATE UNIVERSITY **4709**
CORRELATED OBSERVATIONS OF SUPERLUMINAL QUASARS
07/22/1992 – 03/31/1997 FY97: $0 Total: $213,137
Prin. Invest.: R C LAMB
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2286 IOWA STATE UNIVERSITY **4710**
HIGH PERFORMANCE MORPHOLOGICAL FILTERING OF CIRRUS EMISSION FORM INFRARED IMAGES
06/16/1993 – 02/28/1997 FY97: $0 Total: $79,441
Prin. Invest.: P N APPLETON
Tech. Officer: GSFC/J A PEDELTY
CASE Category: 11 – ASTRONOMY

NAG 5 2491 IOWA STATE UNIVERSITY **4711**
A MASSIVELY PARALLEL GLOBAL MESOSCALE MODEL WITH I MPROVED SURFACE–LAYER COUPLING
02/04/1994 – 02/14/1997 FY97: $0 Total: $90,000
Prin. Invest.: E S TAKLE, J L GUSTAFSON
Tech. Officer: GSFC/J R FISCHER
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2787 IOWA STATE UNIVERSITY **4712**
DYNAMICAL ANALYSES OF MLS AND ISAMS DATA FROM THE UPPER ATMOSPHERE RESEARCH SATELLITE
11/14/1994 – 11/14/1997 FY97: $65,147 Total: $192,452
Prin. Invest.: J L STANFORD
Tech. Officer: GSFC/C H JACKMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2830 IOWA STATE UNIVERSITY **4713**
THE CHROMOSPHERE/SHOCK DILEMMA OF NON–MIRA, LATE– TYPE VARI- ABLE STARS
12/12/1994 – 12/14/1996 FY97: $0 Total: $33,000
Prin. Invest.: L A WILLIAM
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2930 IOWA STATE UNIVERSITY **4714**
ANALYSES FOR THE CLIMATOLOGY AND SHORT–TERM VARI– ABILITY OF THE ATMOSPHERIC GENERAL CIRCULATION ETC
04/18/1995 – 04/30/1997 FY97: $80,000 Total: $240,000
Prin. Invest.: T C CHEN, J J TRIBIA
Tech. Officer: GSFC/S COHN
CASE Category: 11 – ASTRONOMY

NAG 5 3137 IOWA STATE UNIVERSITY **4715**
OBSERVATIONS OF RADIO–LOUD BL LACERTAE OBJECTS AND SUPPE- LUMINAL AGN; CORRELATED OBSERVATIONSOF
11/03/1995 – 11/14/1997 FY97: $0 Total: $48,000
Prin. Invest.: R C LAMB
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3317 IOWA STATE UNIVERSITY **4716**
IR IMAGING OF COLLISIONAL RING GALAXIES
07/31/1996 – 08/14/1998 FY97: $0 Total: $18,000
Prin. Invest.: P N APPLETON
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3819 IOWA STATE UNIVERSITY **4717**
OBSERVATIONS OF NEARBY BL LACERTAE OBJECTS AND OBS MARKARIAN 421 AND MARKARIAN 501
01/24/1997 – 01/31/1998 FY97: $29,000 Total: $29,000
Prin. Invest.: D CARTER–LEWIS
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3918 IOWA STATE UNIVERSITY **4718**
BASIC AWARD
02/24/1997 – 02/14/1998 FY97: $58,494 Total: $58,494
Prin. Invest.: J A DICKERSON
Tech. Officer: GSFC/M A WOODARD, GSFC/P L CROUSE
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 5 4060 IOWA STATE UNIVERSITY **4719**
THEORETICAL MODELS OF HOT PRE–WHITE DWARFS FOR SEI
03/18/1997 – 03/31/1998 FY97: $71,100 Total: $71,100
Prin. Invest.: S D KAWALER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 6353 IOWA STATE UNIVERSITY **4720**
MINIATURIZED LIQUID CHROMATOGRAPHY
09/23/1997 – 06/30/1998 FY97: $75,358 Total: $75,358
Prin. Invest.: M POTTER
Tech. Officer: GSFC/L P CHAMBERS
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 8 963 IOWA STATE UNIVERSITY **4721**
MICROSTRUCTURAL DEVELOPMENT
06/23/1993 – 12/31/1996 FY97: –$6,588 Total: $293,412
Prin. Invest.: T A LOGRASSO
Tech. Officer: MSFC/S D COBB
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1289 IOWA STATE UNIVERSITY **4722**
FOR RESEARCH "ENTRY GUIDANCE FOR THE REUSABLE LAUNCH VEHICLE."
01/08/1997 – 01/07/1998 FY97: $30,564 Total: $30,564
Prin. Invest.: P LU
Tech. Officer: MSFC/J M HANSON, MSFC/G A DUKEMAN
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 9 827 IOWA STATE UNIVERSITY **4723**
DETERMINING CONDITIONS FOR DEVELOPMENT OF FUNCTION AL CARTILAGE
08/15/1995 – 08/31/1998 FY97: $81,000 Total: $279,000
Prin. Invest.: C A HEATH
Tech. Officer: JSC/N R PELLIS
CASE Category: 56 – MEDICL

NAGW 4060 IOWA STATE UNIVERSITY **4724**
NUMERICAL MODEL STUDIES
06/24/1994 – 06/30/1996 FY97: $0 Total: $131,252
Prin. Invest.: M SEGAL
Tech. Officer: HQ/J BERGSTRALH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 2 5216 IOWA STATE UNIVERSITY **4725**
UNCERTAINTY RELATIONSHIP HANDLER FOR ESTIMATING RO BOT ENVIRONMENTS (URHERE)
05/16/1997 – 04/30/1998 FY97: $25,000 Total: $25,000
Prin. Invest.: G THOMAS
Tech. Officer: ARC/M H SIMS
CASE Category: 22 – COMPUTER SCIENCE

NCC 4 104 IOWA STATE UNIVERSITY **4726**
INVESTIGATION OF NONLINEAR CONTROLLER FOR PROPULSION CONTROLLED AIRCRAFT
02/01/1996 – 01/31/1997 FY97: –$3 Total: $39,442
Prin. Invest.: D LU
Tech. Officer: DFRC/J J BURKEN, DFRC/R CLARKE
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 4 109 IOWA STATE UNIVERSITY **4727**
NONCLASSICAL FLIGHT CONTROL FOR UNHEALTHY AIRCRAFT NEW AWARD
03/28/1997 – 11/30/1997 FY97: $35,008 Total: $35,008
Prin. Invest.: P LU
Tech. Officer: DFRC/J PURKEN
CASE Category: 22 – COMPUTER SCIENCE

NCC 8 98 IOWA STATE UNIVERSITY **4728**
INTERFACE PATTERN SELECTION CRITERION FOR CELLULAR STRUCTURES IN DIRECTIONAL SOLIDIFICATION
06/28/1996 – 06/30/1998 FY97: $190,500 Total: $310,500
Prin. Invest.: R K TRIVEDI
Tech. Officer: MSFC/D HUBBARD
CASE Category: 49 – ENGINEERING, OTHER

NGT 30342 IOWA STATE UNIVERSITY **4729**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/04/1995 – 02/01/1998 FY97: $0 Total: $44,000
Prin. Invest.: E TAKLE
Tech. Officer: HQ/G ASRAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 40018 IOWA STATE UNIVERSITY **4730**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
03/14/1990 – 09/30/1999 FY97: $0 Total: $2,448,746
Prin. Invest.: W J BYRD
Tech. Officer: HQ/E SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 50633 IOWA STATE UNIVERSITY **4731**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/30/1990 – 01/31/1996 FY97: $0 Total: $110,000
Prin. Invest.: R H FLETCHER
Tech. Officer: HQ/F C OWENS
CASE Category: 46 – MECHANICAL ENGR

NGT 50949 IOWA STATE UNIVERSITY **4732**
NGT–50949/IOWA STATE UNIV/GRADUATE STUDENT RESEARCHERS PROGRAM
08/04/1992 – 09/24/1996 FY97: $0 Total: $66,000
Prin. Invest.: R H PLETCHER
Tech. Officer: LERC/F MONTEGANI
CASE Category: 46 – MECHANICAL ENGR

NGT 51020 IOWA STATE UNIVERSITY **4733**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/14/1993 – 09/30/1996 FY97: $0 Total: $66,000
Prin. Invest.: J P BASART
Tech. Officer: GSFC/G SOFFEN
CASE Category: 45 – ELECTRICAL ENGR

NGT 51205 IOWA STATE UNIVERSITY **4734**
GRAD STUDENT RESEARCHERS PROGRAM
04/25/1994 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: J E BERNARD
Tech. Officer: MSFC/F SIX
CASE Category: 46 – MECHANICAL ENGR

NGT 51254 IOWA STATE UNIVERSITY **4735**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/07/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: A FLATAU
Tech. Officer: LARC/L EVANS
CASE Category: 46 – MECHANICAL ENGR

NGT 3 52332 IOWA STATE UNIVERSITY **4736**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/11/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: A ROTHMAYER
Tech. Officer: LERC/F J MONTEGANI
CASE Category: 46 – MECHANICAL ENGR

NGT 5 40027 IOWA STATE UNIVERSITY **4737**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA
01/09/1997 – 01/31/1998 FY97: $368,800 Total: $368,800
Prin. Invest.: W J BYRD
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50137 IOWA STATE UNIVERSITY **4738**
MEMBRANE PROTEIN CRYSTALLIZATION: UNDERSTANDING T T ON CRYSTALLIZATION
09/10/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J W WIENCEK, NONE
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 8 52822 IOWA STATE UNIVERSITY **4739**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/31/1996 – 07/01/1997 FY97: $0 Total: $22,000
Prin. Invest.: C L CLOVER
Tech. Officer: MSFC/J HALE
CASE Category: 45 – ELECTRICAL ENGR

NAG 1 1907 UNIVERSITY OF IOWA **4740**
IMPACT OF MINERAL AEROSOLS AND ASIAN EMISSIONS ON THE CHEMISTRY OF THE TROPOSPHERE
03/19/1997 – 03/31/1998 FY97: $111,000 Total: $111,000
Prin. Invest.: G R CAMICHAEL
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 571 UNIVERSITY OF IOWA **4741**
"CONTINUING ANALYSIS AND INTERPRETATION OF DATA FR OM PIONEER 10 AND PIONEER 11"
05/23/1989 – 07/31/1998 FY97: $0 Total: $1,265,482
Prin. Invest.: J A VAN ALLEN
Tech. Officer: ARC/L E LASHER, ARC/R O FIMMEL
CASE Category: 11 – ASTRONOMY

NAG 3 1580 UNIVERSITY OF IOWA **4742**
PROPOSAL TO STUDY THE SCIENTIFIC USES OF SOLAR ELECTRON PROPUSION FOR SPACE PHYSICS MISSIONS
04/01/1994 – 05/23/1997 FY97: $0 Total: $19,780
Prin. Invest.: W S KURTH
Tech. Officer: LERC/J M HICKMAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1592 UNIVERSITY OF IOWA **4743**
BUOYANCY EFFECTS ON THE STRUCTURE AND STABILITY OF BURKE – SCHUMANN DIFFUSION FLAME
06/02/1994 – 06/01/1998 FY97: $77,233 Total: $315,000
Prin. Invest.: L D CHEN
Tech. Officer: LERC/D STOCKER
CASE Category: 46 – MECHANICAL ENGR

NAG 5 295 UNIVERSITY OF IOWA **4744**
MEASUREMENT OF LOW ENERGY ELECTRONS AND PROTONS IN THE EARTHS MAGNETOSPHERE AND THE INTERPLANETORY M
02/01/1983 – 01/31/1997 FY97: $0 Total: $729,003
Prin. Invest.: L A FRANK
Tech. Officer: GSFC/G BULLOCK
CASE Category: 11 – ASTRONOMY

NAG 5 483 UNIVERSITY OF IOWA **4745**
GLOBOL AURORA IMAGING
11/01/1984 – 01/31/1998 FY97: $0 Total: $3,624,815
Prin. Invest.: L A FRANK
Tech. Officer: GSFC/G D BULLOCK, GSFC/R A HOFFMAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 2231 UNIVERSITY OF IOWA **4746**
METHODOLOGY FOR 3D QUADRATURE OF GGS/HYDRA DATA IN CLUDING CALIBRATION DATA, SPACECRAFT POTENTIAL. .
05/10/1993 – 03/31/1998 FY97: $1,158,321 Total: $2,314,001
Prin. Invest.: J D SCUDDER
Tech. Officer: GSFC/M H ACUNA, GSFC/D N BAKER
CASE Category: 13 – PHYSICS

NAG 5 2346 UNIVERSITY OF IOWA **4747**
GEOTAIL MCA PLASMA WAVE DATA ANALYSIS
08/09/1993 – 08/14/1997 FY97: $284,000 Total: $1,534,921
Prin. Invest.: R R ANDERSON
Tech. Officer: GSFC/M ACONA
CASE Category: 13 – PHYSICS

NAG 5 2371 UNIVERSITY OF IOWA **4748**
ANALYSIS OF PLASMA MEASUREMENTS FOR THE GEOTAIL MI SSION
09/21/1993 – 09/30/1997 FY97: $767,000 Total: $3,619,734
Prin. Invest.: L A FRANK
Tech. Officer: GSFC/M H ACUNA
CASE Category: 13 – PHYSICS

NAG 5 2521 UNIVERSITY OF IOWA **4749**
INTERNATIONAL AGN WATCH: CONTINUOUS MONITORING OF NGC 4151
03/09/1994 – 03/14/1997 FY97: $0 Total: $34,500
Prin. Invest.: R EDELSON
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2547 UNIVERSITY OF IOWA **4750**
MULTI-WAVEBAND SPECTRUM AND VARIABILITY OF NGC 415 1
03/09/1994 – 03/14/1997 FY97: $0 Total: $46,808
Prin. Invest.: R EDELSON
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2637 UNIVERSITY OF IOWA **4751**
LONG-TERM MONITORING OF ACTIVE GALACTIC NUCLEI (HR I)
07/06/1994 – 01/14/1997 FY97: $0 Total: $19,440
Prin. Invest.: R EDELSON
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2668 UNIVERSITY OF IOWA **4752**
A STUDY OF IRAS LRS OBSERVATIONS OF VARIABLE CIRCUMSTELLAR SHELLS
08/09/1994 – 08/14/1996 FY97: $0 Total: $34,000
Prin. Invest.: J D FIX
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2774 UNIVERSITY OF IOWA **4753**
DEVELOPMENT OF GROUND RADAR RAINFALL ESTIMATION METHODOLOGY FOR VALIDATION OF TRMM SATELLITE ETC..
10/26/1994 – 10/31/1997 FY97: $115,000 Total: $287,014
Prin. Invest.: W F KRAJEWSKI
Tech. Officer: GSFC/O THIELE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2805 UNIVERSITY OF IOWA **4754**
ANALYSIS OF A COMPLETE FLUX LIMITED SAMPLE OF AGN
12/01/1994 – 03/14/1997 FY97: $0 Total: $6,995
Prin. Invest.: R EDELSON
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 – ASTRONOMY

NAG 5 2939 UNIVERSITY OF IOWA **4755**
WIND AND POLAR DATA ANALYSIS
05/11/1995 – 05/14/1998 FY97: $0 Total: $65,000
Prin. Invest.: J D SCUDDER
Tech. Officer: GSFC/K W OGILVIE
CASE Category: 13 – PHYSICS

NAG 5 3163 UNIVERSITY OF IOWA **4756**
PARTICIPATION IN THE ISTP – GGS – CLUSTER – CIS
02/22/1996 – 02/14/1997 FY97: $0 Total: $35,000
Prin. Invest.: J D SCUDDER
Tech. Officer: GSFC/M L GOLDSTEIN
CASE Category: 13 – PHYSICS

NAG 5 3295 UNIVERSITY OF IOWA **4757**
HARD X-RAY PROPERTIES OF NARROW LINE SEYFERT 1 GAL AXIES
07/17/1996 – 01/31/1998 FY97: $0 Total: $17,000
Prin. Invest.: R EDELSON
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3318 UNIVERSITY OF IOWA **4758**
ISO OBSERVATIONS OF VARIABLE CIRCUMSTELLAR SHELLS
07/31/1996 – 08/14/1998 FY97: $0 Total: $18,000
Prin. Invest.: J D FIX
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3328 UNIVERSITY OF IOWA **4759**
GLOBAL ULTRAVIOLET IMAGING PROCESSING ROR THE GGS/SYSTEM
10/01/1996 – 09/30/1997 FY97: $316,185 Total: $316,185
Prin. Invest.: D A FRANK
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 3716 UNIVERSITY OF IOWA **4760**
BALLOONING INSTABILITIES OF THIN CURRENT SHEETS
01/24/1997 – 01/31/1998 FY97: $15,000 Total: $15,000
Prin. Invest.: A BHATTACHARJEE
Tech. Officer: GSFC/J BOHLINE
CASE Category: 13 – PHYSICS

NAG 5 3760 UNIVERSITY OF IOWA **4761**
DYNAMICS EXPLORER-1 IMAGES ON-LINE TO THE WORLD WI
12/12/1996 – 12/14/1997 FY97: $8,552 Total: $8,552
Prin. Invest.: D A FRANK
Tech. Officer: GSFC/J WILLETT
CASE Category: 13 – PHYSICS

NAG 5 4266 UNIVERSITY OF IOWA **4762**
STUDY OF AURORAL ELECTRON ACCELERATION BY KINETIC
03/25/1997 – 05/14/1998 FY97: $83,900 Total: $83,900
Prin. Invest.: D F OTANI
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 4497 UNIVERSITY OF IOWA **4763**
COMPREHENSIVE INVESTIGATION OF 2FP RADIO EMISSIONS THE DAYSIDE AND NIGHTSIDE AURORAL REGIONS
05/06/1997 – 05/31/1998 FY97: $75,060 Total: $75,060
Prin. Invest.: D MENIETTI
Tech. Officer: GSFC/M M MELLOT
CASE Category: 13 – PHYSICS

NAG 5 4581 UNIVERSITY OF IOWA **4764**
A LOW COST MERCURY ORBITER MISSION
05/13/1997 – 03/31/1999 FY97: $34,000 Total: $34,000
Prin. Invest.: D S KURTH
Tech. Officer: GSFC/R HOWARD
CASE Category: 13 – PHYSICS

NAG 5 4755 UNIVERSITY OF IOWA **4765**
GROUND-BASED RADAR-RAINFALL ESTIMATION FOR THE GUA VALIDATION SITES
06/27/1997 – 06/30/1998 FY97: $115,000 Total: $115,000
Prin. Invest.: W F KRAJEWSKI
Tech. Officer: GSFC/G M HEYMSFIELD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 5023 UNIVERSITY OF IOWA **4766**
OEDIPUS-C ROCKET STUDY OF WAVES IN THE IONOSPHERE
05/23/1994 – 01/31/1997 FY97: $0 Total: $107,000
Prin. Invest.: W CALVERT
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 5051 UNIVERSITY OF IOWA **4767**
PLASMA TURBULENCE IN THE INTERSTELLAR MEDIUM: SIMILARITY TO HELIOSPHERIC TURBULENCE & ROLE IN...
01/25/1996 – 12/31/1997 FY97: $76,000 Total: $152,000
Prin. Invest.: S R SPANGLER
Tech. Officer: GSFC/H C NEEDLEMAN
CASE Category: 13 – PHYSICS

NAG 5 6127 UNIVERSITY OF IOWA **4768**
THEORETICAL STUDIES OF TYPE III SOLAR RADIO BURSTS
08/04/1997 – 07/14/1998 FY97: $54,000 Total: $54,000
Prin. Invest.: D CAIRNS
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 – ASTRONOMY

NAG 5 6171 UNIVERSITY OF IOWA **4769**
NEURAL CONTROL MECHANISMS AND BODY FLUID HOMEOSTAS
08/11/1997 – 03/31/1998 FY97: $149,763 Total: $149,763
Prin. Invest.: A JOHNSON
Tech. Officer: GSFC/L CHAMBERS
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 6369 UNIVERSITY OF IOWA **4770**
LANGMUIR–LIKE WAVES AND RADIATION IN PLANETARY FOR
09/25/1997 – 08/31/1998 FY97: $12,000 Total: $12,000
Prin. Invest.: D H CAIRNS
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 8 292 UNIVERSITY OF IOWA **4771**
PLASMA DUST CRYSTALLIZATION
08/04/1993 – 09/30/1997 FY97: $5,233 Total: $333,257
Prin. Invest.: J GOREE
Tech. Officer: MSFC/B GUYNES, MSFC/R PORTER
CASE Category: 11 – ASTRONOMY

NAG 8 1153 UNIVERSITY OF IOWA **4772**
EMPIRICAL MODELS OF THE INNER MAGNETOSPHERIC ION PLASMA COM- POSITION AND TEMPERATURE
06/21/1995 – 06/20/1998 FY97: $28,218 Total: $84,652
Prin. Invest.: J D MENIETTI
Tech. Officer: MSFC/P D CRAVEN, MSFC/D L GALLAGHER
CASE Category: 13 – PHYSICS

NAG 8 1159 UNIVERSITY OF IOWA **4773**
THERMAL OPTIMIZATION OF GROWTH AND QUALITY PROTEIN CRYSTALS
09/20/1995 – 06/14/1997 FY97: $40,833 Total: $140,675
Prin. Invest.: J M WIENECK
Tech. Officer: MSFC/M L PUSEY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1352 UNIVERSITY OF IOWA **4774**
FOR RESEARCH "REAL TIME MONITORING OF PROTEIN CONCENTRATION IN SOLUTION TO CONTROL NUCLEATION...
06/02/1997 – 11/30/1997 FY97: $77,000 Total: $77,000
Prin. Invest.: M A ARNOLD
Tech. Officer: MSFC/C R TALLEY, MSFC/B R FACEMIRE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1386 UNIVERSITY OF IOWA **4775**
RESEARCH " THERMODYNAMICS OF PROTEIN CRYSTALLIZA– TION AND LINKS TO CRYSTAL QUALITY"
06/23/1997 – 12/23/1997 FY97: $78,000 Total: $78,000
Prin. Invest.: J M WIENCEK
Tech. Officer: MSFC/C TALLEY, MSFC/D REISS
CASE Category: 12 – CHEMISTRY

NAG 9 824 UNIVERSITY OF IOWA **4776**
STUDY OF PROSTATE CANCER
08/08/1995 – 02/15/1998 FY97: $215,000 Total: $680,000
Prin. Invest.: D W MURHAMMER
Tech. Officer: JSC/N PELLIS
CASE Category: 56 – MEDICL

NAGW 2040 UNIVERSITY OF IOWA **4777**
NAGW–2040/UNIV OF IOWA/ELECTRON PLASMA WAVES IN PLANETARY FORESHOCKS
04/30/1990 – 09/30/1997 FY97: $0 Total: $434,000
Prin. Invest.: I H CAIRNS
Tech. Officer: HQ/M M MELLOTT, HQ/T PERRY
CASE Category: 13 – PHYSICS

NAGW 2428 UNIVERSITY OF IOWA **4778**
TRANSPORT AND CHEMICAL CHARACTERISTICS OF TROPOSPH ERIC TRACE GAS CYCLES IN EAST ASIA
05/09/1991 – 03/31/1997 FY97: $0 Total: $525,993
Prin. Invest.: G R CARMICHAEL
Tech. Officer: HQ/J A KAYE, HQ/R E MURPHY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 2847 UNIVERSITY OF IOWA **4779**
AN OBSERVATIONAL STUDY OF THE EARTHS PLASMA SHEET
01/15/1992 – 10/31/1995 FY97: $0 Total: $110,000
Prin. Invest.: C HUANG
Tech. Officer: HQ/E C WHIPPLE, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 3126 UNIVERSITY OF IOWA **4780**
PLASMA DUST EXPERIMENTS
07/14/1992 – 07/31/1996 FY97: $100 Total: $185,000
Prin. Invest.: J A GOREE
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3461 UNIVERSITY OF IOWA **4781**
NAGW–3461/UNIV IOWA/PLASMA WAVES AND RADIATION GEN ERATED NEAR THE TERMINATION SHOCK
03/26/1993 – 09/30/1997 FY97: $0 Total: $148,000
Prin. Invest.: I CAIRNS
Tech. Officer: HQ/W V JONES, HQ/G L WITHBROE
CASE Category: 13 – PHYSICS

NAGW 3576 UNIVERSITY OF IOWA **4782**
MULTI ION, MULTI EVENT TEST OF ION CYCLOTRON RESON ANCE HEAT- ING
05/05/1993 – 09/30/1997 FY97: $0 Total: $79,500
Prin. Invest.: A M PERSOON
Tech. Officer: HQ/E C WHIPPLE, HQ/G L WITHBROE
CASE Category: 13 – PHYSICS

NAGW 4136 UNIVERSITY OF IOWA **4783**
THE DEFINITION STUDY FOR IMPLEMENTATION OF THE IMA P MISSION
09/28/1994 – 08/31/1997 FY97: $0 Total: $50,000
Prin. Invest.: L A FRANK
Tech. Officer: HQ/E C WHIPPLE, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4358 UNIVERSITY OF IOWA **4784**
NEURAL CONTROL MECHANISMS AND BODY FLUID HOMEOSTAS IS
03/18/1995 – 03/31/1998 FY97: $0 Total: $284,227
Prin. Invest.: A K JOHNSON
Tech. Officer: HQ/F SULZMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4389 UNIVERSITY OF IOWA **4785**
PLASMA TURBULENCE IN THE INTERSTELLAR MEDIUM: SIM ILARITY TO HELIOSPHERIC TURBULENCE
03/31/1995 – 12/31/1996 FY97: $0 Total: $76,000
Prin. Invest.: S R SPANGLER
Tech. Officer: HQ/M A FORMAN
CASE Category: 13 – PHYSICS

NAGW 4597 UNIVERSITY OF IOWA **4786**
A PROPOSAL FOR THE RESTORATION OF HELIOS PLASMA WA VE SPEC-TRUM ANALYZER DATA
06/26/1995 – 09/30/1996 FY97: $0 Total: $28,451
Prin. Invest.: W S KURTH
Tech. Officer: HQ/J WILLETT
CASE Category: 11 – ASTRONOMY

NAGW 4668 UNIVERSITY OF IOWA **4787**
OPERATION OF DISCIPLINE NODES OF THE PLANETARY DATA SYSTEM
09/13/1995 – 07/31/1996 FY97: –$105 Total: $58,323
Prin. Invest.: W KURTH
Tech. Officer: HQ/J BERGSTRALH
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5051 UNIVERSITY OF IOWA **4788**
COMPREHENSIVE INVESTIGATION OF 2FP RADIO EMISSIONS OBSERVED BY DE 1 IN THE DAYSIDE AND NIGHTSIDE
05/06/1996 – 12/31/1997 FY97: $0 Total: $73,000
Prin. Invest.: J MENIETTI
Tech. Officer: HQ/M M MELLOTT, HQ/G L WITHBORE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5182 UNIVERSITY OF IOWA **4789**
KINETIC ALFVEN WAVE ELECTRON ACCELERATION ON AURORAL FIELD LINES
09/06/1996 – 12/31/1997 FY97: $0 Total: $46,300
Prin. Invest.: C A KLETZING
Tech. Officer: HQ/M M MELLOTT, HQ/G L WITHBROE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAS 5 30316 UNIVERSITY OF IOWA **4790**
MISSION OPS & DATA ANALYSIS VISIBLE IMAGING INVESTIGATION
02/06/1989 – 02/24/1998 FY97: $409,048 Total: $14,616,659
Prin. Invest.: L FRANK
Tech. Officer: GSFC/J GALLOWAY
CASE Category: 13 – PHYSICS

NAS 5 30371 UNIVERSITY OF IOWA **4791**
PLASMA WAVE INVESTIGATION PHASE C/D ISTP POLAR MISSION
12/29/1988 – 03/25/1998 FY97: $288,999 Total: $8,048,080
Prin. Invest.: D A GURNETT
Tech. Officer: GSFC/D CROSBY
CASE Category: 13 – PHYSICS

NAS 5 30730 UNIVERSITY OF IOWA **4792**
ISTP PROJECT'S WIDEBAND PLASMA WAVE INVESTIGATION
01/30/1990 – 11/10/1997 FY97: $100,000 Total: $4,856,953
Prin. Invest.: D GURNETT
Tech. Officer: GSFC/J L CHRISTENSEN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 3 290 UNIVERSITY OF IOWA **4793**
TRANSPORT PHENOMENA DURING EQUIAXED SOLIDIFICATION OF ALLOYS
01/16/1993 – 01/07/1997 FY97: $0 Total: $257,338
Prin. Invest.: C BECKERMAN, H C DEGROH
Tech. Officer: LERC/H C DEGROH
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 8 94 UNIVERSITY OF IOWA **4794**
EQUIAXED DENDRITIC SOLIDIFICATION EXPERIMENT (EDSE
05/31/1996 – 05/31/1998 FY97: $159,993 Total: $279,980
Prin. Invest.: C BECKERMANN
Tech. Officer: MSFC/J FRAIZER, MSFC
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 30160 UNIVERSITY OF IOWA **4795**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/24/1993 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: W F KRAJEWSKI
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30192 UNIVERSITY OF IOWA **4796**
GLOBAL CHANGE FELLOWSHIP PROGRAM
09/01/1993 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: W F KRAJEWSKI
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 30218 UNIVERSITY OF IOWA **4797**
GLOBAL CHANGE FELLOWSHIP PROGRAM
09/03/1993 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: T F SMITH
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 51321 UNIVERSITY OF IOWA **4798**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/14/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: T RUS
Tech. Officer: HQ/P SMITH
CASE Category: 22 – COMPUTER SCIENCE

NGT 51351 UNIVERSITY OF IOWA **4799**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/08/1994 – 09/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: J A GOREE
Tech. Officer: HQ/G ALESANE
CASE Category: 13 – PHYSICS

NGT 51412 UNIVERSITY OF IOWA **4800**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/28/1995 – 06/30/1997 FY97: $0 Total: $57,577
Prin. Invest.: J M WIENCEK
Tech. Officer: HQ/DGLASCO
CASE Category: 43 – CHEMICAL ENGR

NGT 51422 UNIVERSITY OF IOWA **4801**
GSRP
09/25/1995 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: D M WIENCEK
Tech. Officer: HQ/D LONGEDDY
CASE Category: 43 – CHEMICAL ENGR

NGT 51686 UNIVERSITY OF IOWA **4802**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/08/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: J WIENCEK
Tech. Officer: HQ/G LESANE
CASE Category: 43 – CHEMICAL ENGR

NGT 70411 UNIVERSITY OF IOWA **4803**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/20/1995 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: J SCUDDER
Tech. Officer: HQ/D KRUSSELL
CASE Category: 13 – PHYSICS

NGT 5 30031 UNIVERSITY OF IOWA **4804**
VALIDATION OF RAINFALL ESTIMATES FROM SPACE–BORNE
10/17/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: W F KRAJEWSKI
Tech. Officer: GSFC/G ASRAR
CASE Category: 11 – ASTRONOMY

NGT 5 50139 UNIVERSITY OF IOWA **4805**
CHARACTERIZATION AND MEASUREMENT OF FORCE ON PARTI TAL EXPERIMENT
09/12/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J GOREE
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50156 UNIVERSITY OF IOWA **4806**
MICROVASCULAR ALTERATIONS IN SIMULATED MICROGRAVIT
09/11/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: C V GISOLFI
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 3751 UNIVERSITY OF NORTHERN IOWA **4807**
ALTERED GRAVITY AND EARLY HEART DEVELOPMENT IN CUL
03/10/1997 – 03/14/1998 FY97: $76,523 Total: $76,523
Prin. Invest.: D J WIENS
Tech. Officer: GSFC/T SCOTT/
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4992 UNIVERSITY OF NORTHERN IOWA **4808**
ALTERED GRAVITY AND EARLY HEART DEVELOPMENT IN CUL TURE
03/07/1996 – 12/31/1996 FY97: $0 Total: $85,436
Prin. Invest.: D WIENS, PH.D.
Tech. Officer: HQ/F SULZMAN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

KANSAS

NAG 8 215 EMPORIA STATE UNIVERSITY **4809**
JOVE
01/28/1992 – 07/31/1996 FY97: $0 Total: $108,400
Prin. Invest.: J S ABER, J L BALLESTER
Tech. Officer: MSFC/F SIX
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 2949 GARDEN COMMUNITY COLLEGE **4810**
SUPERNOVAE EFFECTS ON THE EARTH'S ATMOSPHERE
05/25/1995 – 01/31/1998 FY97: $20,000 Total: $69,000
Prin. Invest.: G M LAIRD
Tech. Officer: GSFC/N GEHRELS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1503 KANSAS STATE UNIVERSITY **4811**
CRACK GROWTH PREDICTION METHODOLOGY FOR MULTI–SITE DAMAGE: LAYERED ANALYSIS AND GROWTH NLPN 93–210
04/12/1993 – 11/11/1997 FY97: $50,000 Total: $228,896
Prin. Invest.: D V SWENSON
Tech. Officer: LARC/J C NEWMAN, LARC/C E HARRIS
CASE Category: 46 – MECHANICAL ENGR

NAG 2 1005 KANSAS STATE UNIVERSITY **4812**
EFFECTS OF MICROGRAVITY ON QUAIL EYE DEVELOPMENT
08/23/1995 – 12/31/1997 FY97: $10,220 Total: $131,384
Prin. Invest.: G W CONRAD
Tech. Officer: ARC/C M WINGET, ARC/G C JAHNS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 3885 KANSAS STATE UNIVERSITY **4813**
EFFECTS OF SILVER AND OTHER METALS ON THE CYTOSKEL
03/06/1997 – 02/14/1998 FY97: $132,820 Total: $132,820
Prin. Invest.: G CONRAD
Tech. Officer: GSFC/T SCOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 8 1124 KANSAS STATE UNIVERSITY **4814**
JOVE
05/30/1995 – 05/31/1997 FY97: $0 Total: $21,025
Prin. Invest.: B S SPOONER
Tech. Officer: MSFC/F SIX
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 9 872 KANSAS STATE UNIVERSITY **4815**
EARTH OBSERVATIONS ON THE INTERNATIONA SPACE STATION
06/16/1996 – 06/17/1998 FY97: $0 Total: $10,000
Prin. Invest.: M D NELLIS
Tech. Officer: JSC/K P LULLA
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 1111 KANSAS STATE UNIVERSITY **4816**
PHOTOGEOLOGIC STUDY OF SELECTED FEATURES ON MARS
06/01/1987 – 09/30/1997 FY97: $0 Total: $407,111
Prin. Invest.: J R UNDERWOOD
Tech. Officer: HQ/D H SCOTT, HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2328 KANSAS STATE UNIVERSITY **4817**
THE CENTER FOR GRAVITATIONAL STUDIES IN CELLULAR A ND DEVELOPMENTAL BIOLOGY
02/12/1991 – 08/30/1998 FY97: $0 Total: $5,070,154
Prin. Invest.: B S SPOONER
Tech. Officer: HQ/R J WHITE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 4491 KANSAS STATE UNIVERSITY **4818**
EFFECTS OF SILVER AND OTHER METALS ON THE CYTO– SKELTON
05/16/1995 – 06/30/1997 FY97: $0 Total: $250,520
Prin. Invest.: G W CONRAD
Tech. Officer: HQ/T K SCOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG10 142 KANSAS STATE UNIVERSITY **4819**
STARCH METABOLISM INSPACE–GROWN SOYBEAN SEEDLINGS
07/15/1994 – 09/30/1998 FY97: $190,312 Total: $325,372
Prin. Invest.: J A GUIKEMA
Tech. Officer: KSC/W M KNOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG10 189 KANSAS STATE UNIVERSITY **4820**
EFFECTS OF MICRO–G ON GENE EXPRESSION IN HIGHER PLANTS
03/28/1996 – 03/28/1998 FY97: $105,849 Total: $198,540
Prin. Invest.: D LI
Tech. Officer: KSC/W KNOTT
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 1 225 KANSAS STATE UNIVERSITY **4821**
GENERALIZED PREDICTIVE AND NEURAL GENERALIZED PREDICTIVE CONTROL AEROSPACE SYSTEMS
05/07/1996 – 11/15/1997 FY97: $23,234 Total: $56,703
Prin. Invest.: A G KELKAR
Tech. Officer: LARC/P J HALEY, ARC/D I SOLOWAY
CASE Category: 21 – MATHEMATICS

NCC 1 226 KANSAS STATE UNIVERSITY **4822**
PASSITIVITY–BASED ROBUST CONTROL OF AEROSPACE SYST
04/09/1996 – 04/08/1998 FY97: $41,000 Total: $66,000
Prin. Invest.: D G KELKAR
Tech. Officer: LARC/D M JOSHI
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 871 KANSAS STATE UNIVERSITY **4823**
IMPACT OF GENERAL AVIATION ON THE CENTER–TRACON AU TOMATION SYSTEM (CTAS)
07/15/1994 – 06/30/1998 FY97: $54,379 Total: $172,314
Prin. Invest.: P J GORDER
Tech. Officer: ARC/R K GREIF
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 50008 KANSAS STATE UNIVERSITY **4824**
USING SPATIO–TEMPORAL HETEROGENEITY OF LANDCOVER C –SENSOR ANALYSIS OF A TALLGRASS PRAIRIEGRADIENT
11/25/1996 – 08/31/1997 FY97: $44,000 Total: $44,000
Prin. Invest.: J BRIGGS
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 1 1735 UNIVERSITY OF KANSAS **4825**
INTERIOR NOISE REDUCTION BY ADAPTIVE FEEDBACK VIBRATION CONTROL
07/05/1995 – 07/04/1998 FY97: $1 Total: $30,001
Prin. Invest.: T W LIM
Tech. Officer: LARC/R J SILCOX
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1821 UNIVERSITY OF KANSAS **4826**
AERODYNAMIC MODELING FOR AIRCRAFT IN UNSTEADY FLIGHT CONDITIONS
03/22/1996 – 09/30/1997 FY97: $56,226 Total: $81,226
Prin. Invest.: C E LAN
Tech. Officer: LARC/J M BRANDON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1805 UNIVERSITY OF KANSAS **4827**
AN EXPERIMENTAL RESEARCH ON HOT–SUPERSONIC–MULTI–J ET EJECTORS
02/28/1996 – 03/31/1998 FY97: $27,008 Total: $50,002
Prin. Invest.: R TAGHAVI
Tech. Officer: LERC/K Q ZAMAN
CASE Category: 46 – MECHANICAL ENGR

NAG 5 2344 UNIVERSITY OF KANSAS **4828**
STUDIES OF MICROWAVE SCATTERING AND CANOPY ARCHITE CTURE FOR BOREAL FORESTS
07/27/1993 – 08/14/1996 FY97: $0 Total: $141,859
Prin. Invest.: S P GOGINENI, P M RICH
Tech. Officer: GSFC/F G HALL, GSFC/P J SELLERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2358 UNIVERSITY OF KANSAS **4829**
STUDIES OF MICROWAVE SCATTERING AND CANOPY ARCHITE CTURE FOR BOREAL FORESTS: ACQUISITION AND...
09/13/1993 – 06/14/1998 FY97: $45,000 Total: $220,359
Prin. Invest.: P M RICH
Tech. Officer: GSFC/F G HALL, GSFC/P J SELLERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4039 UNIVERSITY OF KANSAS **4830**
PROBING LARGE SCALE STRUCTURE AND GALAXY FORMATION ABSORPTION SPECTRA
02/26/1997 – 02/28/1998 FY97: $35,000 Total: $35,000
Prin. Invest.: D L MELOTT
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 4358 UNIVERSITY OF KANSAS **4831**
STUDIES IN PLANETARY AERONOMY
04/17/1997 – 03/31/1998 FY97: $67,000 Total: $67,000
Prin. Invest.: D E CRAVENS
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4523 UNIVERSITY OF KANSAS **4832**
SOLAR CYCLE TIME SCALE OBSERVATIONS OF INTERPLANET AND PROTONS
05/08/1997 – 04/30/1998 FY97: $15,417 Total: $15,417
Prin. Invest.: D P ARMSTRONG
Tech. Officer: GSFC/J WILLETT
CASE Category: 11 – ASTRONOMY

NAG 5 4990 UNIVERSITY OF KANSAS **4833**
DEVELOPMENT OF LAND USE MAPPING AND PROTOCOL FOR T A MULTI-TEMPORAL REMOTE SENSING APPLICATION
06/27/1997 – 06/14/1998 FY97: $140,431 Total: $140,431
Prin. Invest.: K P PRICE
Tech. Officer: GSFC/A J TUYAHOV
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 6345 UNIVERSITY OF KANSAS **4834**
MEASUREMENT OF THICKNESS OF THE GREENLAND ICE SHEE SCATTERING PROPERTIES OF GLACIAL ICE
09/12/1997 – 08/14/1998 FY97: $163,302 Total: $163,302
Prin. Invest.: S D GOGINENI
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 1588 UNIVERSITY OF KANSAS **4835**
STUDIES IN PLANETARY AERONOMY
12/28/1988 – 03/31/1997 FY97: $0 Total: $488,331
Prin. Invest.: T E CRAVENS
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAGW 3043 UNIVERSITY OF KANSAS **4836**
NAGW-3043/UNIV KANSAS/SEA-ICE CLASSIFICATION BY TH E INTELLIGENT INTEGRATION OF ACTIVE AND PASSIVE
04/17/1992 – 04/30/1996 FY97: $0 Total: $422,090
Prin. Invest.: C TSATSOULIS, P GOGINENI
Tech. Officer: HQ/R H THOMAS, HQ/R A SCHIFFER
CASE Category: 33 – OCEANOGRAPHY

NAGW 3700 UNIVERSITY OF KANSAS **4837**
MEASUREMENT OF THICKNESS OF THE GREENLAND ICE SHEE T AND INVESTIGATION OF SCATTERING PROPERTIES
08/10/1993 – 11/15/1997 FY97: $0 Total: $575,199
Prin. Invest.: S P GOGINENI
Tech. Officer: HQ/R H THOMAS, HQ/J S THEON
CASE Categ : 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3810 UNIVERSITY OF KANSAS **4838**
NAGW-3810/B UNIV KANSAS "DEV.OF A LAND USE MAPPING AND MONITORING.." 1/1/94 START
11/19/1993 – 09/15/1997 FY97: $0 Total: $446,956
Prin. Invest.: K P PRICE, M D NELLIS
Tech. Officer: HQ/A J TUYUHOV, HQ/S R SCHNEIDER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3832 UNIVERSITY OF KANSAS **4839**
PROBING LARGE SCALE STRUCTURE AND GALAXY INFO
12/14/1993 – 09/30/1997 FY97: $0 Total: $105,000
Prin. Invest.: A L MELOTT
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 4515 UNIVERSITY OF KANSAS **4840**
EXPERIMENTAL PROGRAM TO STIMULATE COMPETITIVE RESE ARCH (EPSCOR)
05/25/1995 – 09/30/1996 FY97: $0 Total: $75,000
Prin. Invest.: D R DOWNING
Tech. Officer: HQ/A S MCGEE, HQ/E T SCHWARTZ
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 5 168 UNIVERSITY OF KANSAS **4841**
KANSAS SPACE AND LIFE SCIENCES, GEOPHYSICAL INFORM AERONAUTICS AND FLIGHT ENGINEERING TECHNOLOGY (K-
01/27/1997 – 12/31/1997 FY97: $500,000 Total: $500,000
Prin. Invest.: D R DOWNING*Prin. Invest.:* NONE
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 30189 UNIVERSITY OF KANSAS **4842**
GLOBAL CHANGE FELLOWSHIP PROGRAM
09/02/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: C TSATSOULIS
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 40026 UNIVERSITY OF KANSAS **4843**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
04/30/1991 – 09/30/1997 FY97: $0 Total: $984,000
Prin. Invest.: D R DOWNING
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51021 UNIVERSITY OF KANSAS **4844**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/06/1993 – 06/30/1996 FY97: –$6,965 Total: $59,035
Prin. Invest.: S P GOGINENI
Tech. Officer: GSFC/G SOFFEN
CASE Category: 45 – ELECTRICAL ENGR

NGT 51123 UNIVERSITY OF KANSAS **4845**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/05/1993 – 07/31/1996 FY97: –$9,503 Total: $56,497
Prin. Invest.: R K MOORE
Tech. Officer: HQ/G LESANE
CASE Category: 45 – ELECTRICAL ENGR

NGT 5 3 UNIVERSITY OF KANSAS **4846**
IONIZATION OF MIDDLE AND UPPEAR ATMOSPHERES AS DETECTED BY POLAR ICE CAP NITRATES
06/22/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: T P ARMSTRONG
Tech. Officer: GSFC/G S SOFFEN, GSFC/C H JACKMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 5 30029 UNIVERSITY OF KANSAS **4847**
RADAR INTERFEROMETRY FOR IMPROVED CROSS-TRACT RESO OF THE THICKNESS OF THE GREENLAND ICE SHEET
10/17/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: S GOGINENI
Tech. Officer: GSFC/G ASRAR
CASE Category: 11 – ASTRONOMY

NGT 5 40033 UNIVERSITY OF KANSAS **4848**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
02/13/1997 – 02/28/1998 FY97: $170,000 Total: $170,000
Prin. Invest.: D R DOWNING
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50073 UNIVERSITY OF KANSAS **4849**
A HIGH RESOLUTION RADAR CHARACTERIZATION OF ICE IN TERRESTRIAL LIFE
08/26/1997 – 07/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: R G PLUMB
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 2 1016 UNIVERSITY OF KANSAS MEDICAL CENTER **4850**
MICROGRAVITY & SIGNAL TRASDUCTION PATHWAYS IN SPER M
10/12/1995 – 08/31/1997 FY97: $150,000 Total: $305,410
Prin. Invest.: J S TASH
Tech. Officer: ARC/C M WINGET, ARC/G C JANHS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 1 1488 WICHITA STATE UNIVERSITY **4851**
PROGRESSIVE DAMAGE ANALYSIS
02/25/1993 – 02/29/1996 FY97: –$1 Total: $179,991
Prin. Invest.: S J HOOPER
Tech. Officer: LARC/TK O'BRION
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1694 WICHITA STATE UNIVERSITY **4852**
WSU STUDENT CO–OP IN MICROGRAVITY COMBUSTION RESEA RCH
01/17/1995 – 12/31/1995 FY97: –$98 Total: $17,088
Prin. Invest.: D N KOERT
Tech. Officer: LERC/D L DIETRICH
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1775 WICHITA STATE UNIVERSITY **4853**
RESEARCH PROGRAM TO MODERNIZE AND EXPAND THE WATER IMPINGEMENT DATA BASE FOR AIRCRAFT SURFACE – PHAS
08/07/1995 – 03/01/1999 FY97: $0 Total: $119,181
Prin. Invest.: D PAPADAKIS
Tech. Officer: LERC/C S BIDWELL
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1914 WICHITA STATE UNIVERSITY **4854**
STUDENT INTERN PROG IN MICROGRAVITY COMBUSTION/FLA ME CHEMISTRY RESEARH PROJECT
07/05/1996 – 03/02/1997 FY97: $0 Total: $23,846
Prin. Invest.: D N KOERT
Tech. Officer: LERC/D L DIETRICH, LERC/H D ROSS
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1985 WICHITA STATE UNIVERSITY **4855**
MODERNIZE AND EXPAND THE WATER IMPINGEMENT DATA BASE FOR AIRCRAFT SURFACES
11/12/1996 – 11/30/1999 FY97: $161,417 Total: $161,417
Prin. Invest.: M PAPADAKIS
Tech. Officer: LERC/C S BIDWELL
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 3435 WICHITA STATE UNIVERSITY **4856**
SPECTROSCOPIC PROPERTIES OF SUB STELLAR OBJECTS
10/01/1996 – 09/30/1997 FY97: $75,000 Total: $75,000
Prin. Invest.: F ALLARD
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NCA 1 106 WICHITA STATE UNIVERSITY **4857**
GENERAL AVIATION PROGRAM/AGATE
02/24/1995 – 10/31/1997 FY97: $700,375 Total: $1,406,179
Prin. Invest.: H WILLIFORD, D ELLIS
Tech. Officer: LARC/W E RICKS
CASE Category: 41 – AERONAUTICAL ENGNR

NCA 3 111 WICHITA STATE UNIVERSITY **4858**
JOINT SPONSORED RESARCH AGREEMENT – ICHING RESEARC H
02/22/1996 – 04/30/1997 FY97: $67,612 Total: $122,612
Prin. Invest.: D ELLIS
Tech. Officer: LERC/T H BOND
CASE Category: 41 – AERONAUTICAL ENGNR

KENTUCKY

NAG 9 906 EASTERN KENTUCKY UNIVERSITY **4859**
EXCAVATION IN REDUCED GRAVITY ENVIRONMENT
09/19/1996 – 07/31/1997 FY97: $0 Total: $5,000
Prin. Invest.: W BOLES
Tech. Officer: JSC/J CONNOLLY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 2 5131 KENTUCKY STATE UNIVERSITY **4860**
PNEUMATIC SOIL SAMPLER FIELD TEST
06/01/1995 – 03/31/1997 FY97: $0 Total: $9,991
Prin. Invest.: J SCHAEFER, J STENCEL, J NEATHERY
Tech. Officer: ARC/G BRIGGS, ARC/C MCKAY
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 8 1119 MOREHEAD STATE UNIVERSITY **4861**
JOVE
01/10/1995 – 05/31/1997 FY97: $0 Total: $79,000
Prin. Invest.: B MALPHRUS, A MARTIN
Tech. Officer: MSFC/F SIX
CASE Category: 11 – ASTRONOMY

NAG 8 990 NORTHERN KENTUCKY UNIVERSITY **4862**
JOVE
11/03/1993 – 05/31/1997 FY97: $0 Total: $85,789
Prin. Invest.: M FALBO–KENKEL, R MC NEIL, D SCHNEIDER
Tech. Officer: MSFC/F SIX
CASE Category: 11 – ASTRONOMY

NAG 2 1121 UNIVERSITY OF KENTUCKY **4863**
CARBON NANOTUBULES: BUILDING BLOCKS FOR NANOMETER –SCALE ENGINEERING
02/25/1997 – 12/31/1997 FY97: $41,480 Total: $41,480
Prin. Invest.: S B SINNOTT
Tech. Officer: ARC/C LEVIT, ARC/D A BAILEY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 3 1588 UNIVERSITY OF KENTUCKY **4864**
FLIGHT TEST OF A FLAT PLATE HEAT PLATE WITH INTERF EEDERS
05/01/1994 – 09/30/1997 FY97: -$3,580 Total: $86,808
Prin. Invest.: L C CHOW
Tech. Officer: LERC/K W BAKER
CASE Category: 46 – MECHANICAL ENGR

NAG 3 2018 UNIVERSITY OF KENTUCKY **4865**
TRANSITION & TURBULENCE MODELING OF LOW PRESSURE T URBINE FLOWS
03/12/1997 – 11/30/1997 FY97: $35,023 Total: $35,023
Prin. Invest.: P G HUANG
Tech. Officer: LERC/D E ASPHPIS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 3010 UNIVERSITY OF KENTUCKY **4866**
A SUPPLEMENTAL CATALOGUE OF IRAS CIRCUMSTELLAR SHELLS MIS NO. 9501190844
07/18/1995 – 07/31/1997 FY97: $60,000 Total: $176,000
Prin. Invest.: M ELITZUR
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3223 UNIVERSITY OF KENTUCKY **4867**
PROBING THE CENTRAL REGIONS OF ACTIVE NUCLEI
05/15/1996 – 05/14/1998 FY97: $90,481 Total: $183,880
Prin. Invest.: FERLAND
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3841 UNIVERSITY OF KENTUCKY **4868**
GAS DYNAMICS IN ACTIVE GALACTIC NUCLEI: BROAD LINE
02/28/1997 – 02/14/1998 FY97: $66,400 Total: $66,400
Prin. Invest.: I SHLOSMAN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4235 UNIVERSITY OF KENTUCKY **4869**
THEORETICAL STUDIES OF INFRARED EMISSION FROM STAR
03/24/1997 – 03/31/1998 FY97: $60,200 Total: $60,200
Prin. Invest.: G J FERLAND
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4510 UNIVERSITY OF KENTUCKY **4870**
PROBING LOW IONIZATION GAS IN STARS & AGNS: THE SI
05/29/1997 – 01/31/1998 FY97: $9,559 Total: $9,559
Prin. Invest.: G J FERLAND
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4594 UNIVERSITY OF KENTUCKY **4871**
IN-SITU, REMOTE CHEMICAL SENSORS BASED ON THIN MAG
05/12/1997 – 05/14/1998 FY97: $128,748 Total: $128,748
Prin. Invest.: C A GRIMES
Tech. Officer: GSFC/G FOGLEMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 8 1317 UNIVERSITY OF KENTUCKY **4872**
ADVANCED INFLATABLE STRUCTURES FOR AEROSPACE
01/14/1997 – 12/31/1998 FY97: $250,000 Total: $250,000
Prin. Invest.: J MAIN
Tech. Officer: MSFC/B EMRICH
CASE Category: 42 – ASTRONAUTICAL ENGR

NAGW 3315 UNIVERSITY OF KENTUCKY **4873**
PROBING THE CENTRAL REGIONS OF ACTIVE NUCLEI
01/06/1993 – 10/31/1996 FY97: $0 Total: $389,272
Prin. Invest.: G FERLAND
Tech. Officer: HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 3786 UNIVERSITY OF KENTUCKY **4874**
VALIDATION OF SPECTRAL ANALYSIS AS A NONINVASIVE
09/30/1993 – 06/30/1996 FY97: $0 Total: $180,000
Prin. Invest.: C F KNAPP
Tech. Officer: HQ/F M SULZMAN
CASE Category: 56 – MEDICL

NAGW 3839 UNIVERSITY OF KENTUCKY **4875**
NAGW-3839/B UNIV. KENT. RES. FDTN. "PHYSICS OF ACC RET. DISK WINDS.." _1/1/94 START
12/17/1993 – 06/30/1997 FY97: $0 Total: $90,000
Prin. Invest.: I SHLOSMAN
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILLER
CASE Category: 11 – ASTRONOMY

NCC 2 5193 UNIVERSITY OF KENTUCKY **4876**
TEMPERATURE FLUCTUATIONS IN THE ORION NEBULA AND NEBULAR ABUNDANCE SCALE
11/01/1996 – 10/31/1997 FY97: $26,536 Total: $26,536
Prin. Invest.: D J FERLAND
Tech. Officer: ARC/D GOORITCH
CASE Category: 11 – ASTRONOMY

NGT 40049 UNIVERSITY OF KENTUCKY **4877**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
07/24/1991 – 02/28/1998 FY97: $0 Total: $999,000
Prin. Invest.: R HACKNEY
Tech. Officer: HQ/E SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 1 52146 UNIVERSITY OF KENTUCKY **4878**
GRADUATE STUDENT RESEARCHER PROGRAM (GSRP)
07/22/1996 – 07/31/1998 FY97: $11,000 Total: $33,000
Prin. Invest.: K D DIPPERY, S W SMITH
Tech. Officer: LARC/M G GILBERT
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 3374 UNIVERSITY OF LOUISVILLE **4879**
DEVELOPMENT OF GAS MICROSTRUCTURE DETECTORS FOR AS TRO-PHYSICS
08/28/1996 – 08/31/1997 FY97: $0 Total: $10,000
Prin. Invest.: W K PITTS
Tech. Officer: GSFC/R C HARTMAN, GSFC/S D HUNTER
CASE Category: 11 – ASTRONOMY

NAG 5 5142 UNIVERSITY OF LOUISVILLE **4880**
DEVELOPMENT OF GAS MICROSTRUCTURE DETECTORS FOR GAMMA-RAY TELESCOPES
04/21/1997 – 03/31/1998 FY97: $139,800 Total: $139,800
Prin. Invest.: W PITTS
Tech. Officer: GSFC/H NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAGW 4031 UNIVERSITY OF LOUISVILLE **4881**
"SPACE BIOLOGY RESEARCH ASSOCIATES PROGRAM"
06/22/1994 – 09/30/1997 FY97: $0 Total: $686,704
Prin. Invest.: G SONNENFELD
Tech. Officer: HQ/T W HALSTEAD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 5042 UNIVERSITY OF LOUISVILLE **4882**
CYTOCHROME P450: COMPARISON OF FLIGHT AND SUSPENS ION
04/22/1996 – 04/30/1997 FY97: $0 Total: $15,394
Prin. Invest.: J M STEFFEN
Tech. Officer: HQ/V THORNE
CASE Category: 56 – MEDICL

NCC 1 261 UNIVERSITY OF LOUISVILLE **4883**
RESEARCH AND DEVELOPMENT ON RAPID DESIGN SYSTEMS FOR AERO-SPACE STRUCTURES
07/18/1997 – 07/31/1998 FY97: $30,000 Total: $30,000
Prin. Invest.: H G SCHAEFFER
Tech. Officer: LARC/J M HOUSNER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 2595 WESTERN KENTUCKY UNIVERSITY **4884**
UNDERREPRESENTED MINORITIES AND ASTROPHYSICS
05/11/1994 – 05/14/1997 FY97: $64,413 Total: $430,281
Prin. Invest.: C H MCGRUDER
Tech. Officer: GSFC/C J CRANNELL
CASE Category: 11 – ASTRONOMY

NAG 5 3822 WESTERN KENTUCKY UNIVERSITY **4885**
AN EXTENDED OBSERVATION OF BLAZAR 3C 279
01/24/1997 – 01/31/1998 FY97: $4,124 Total: $4,124
Prin. Invest.: M CARINI
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NCC 5 222 WESTERN KENTUCKY UNIVERSITY **4886**
TO SUPPORT THE KENTUCKY NASA EXPERIMENTAL PROGRAM COMPETI-TIVE RESEARCH
08/11/1997 – 06/30/1998 FY97: $500,000 Total: $500,000
Prin. Invest.: R HACKNEY
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCCW 60 WESTERN KENTUCKY UNIVERSITY **4887**
EPSCOR PROGRAM
06/21/1994 – 12/31/1997 FY97: $0 Total: $1,500,000
Prin. Invest.: R HACKNEY
Tech. Officer: HQ/L KEFFER, HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40051 WESTERN KENTUCKY UNIVERSITY **4888**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA
01/30/1997 – 02/28/1998 FY97: $205,000 Total: $205,000
Prin. Invest.: R HACKNEY
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

LOUISIANA

NAG 8 1010 DILLARD UNIVERSITY **4889**
JOVE
11/19/1993 – 11/30/1997 FY97: –$1,577 Total: $85,423
Prin. Invest.: G ROCHON, G LOVE
Tech. Officer: MSFC/F SIX
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAG 8 1392 GRAMBLING STATE UNIVERSITY **4890**
R/S "NLO POLYMERS THAT HAVE ENHANCED THERMAL STABILITY AND LOW ALIGNMENT DECAY"
07/23/1997 – 07/22/1998 FY97: $99,960 Total: $99,960
Prin. Invest.: C WALTON
Tech. Officer: MSFC/B PENN
CASE Category: 11 – ASTRONOMY

NCC 3 512 GRAMBLING STATE UNIVERSITY **4891**
POLYMERIZABLE MONOMER REACTANTS–MODIFIED POLYMIDES
11/04/1996 – 10/28/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: D E HUBBARD
Tech. Officer: LERC/M A MEADOR
CASE Category: 12 – CHEMISTRY

NAG 1 1672 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4892**
EFFICIENT PARALLEL KERNEL SOLVERS FOR COMPUTA– TIONAL FLUID DYNAMICS APPLICATION
01/18/1995 – 08/14/1997 FY97: $0 Total: $60,001
Prin. Invest.: X H SUN
Tech. Officer: LARC/S MOLTRA
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 2 1020 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4893**
DEVELOMENTAL ANALYSIS OF SEEDS GROWN ON MIR
01/18/1996 – 11/30/1997 FY97: $75,000 Total: $204,783
Prin. Invest.: M E MUSGRAVE
Tech. Officer: ARC/C M WINGET, ARC/G C JAHNS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 3 1641 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4894**
LARGE EDDY SIMULATIONS IMPROVED TURBULENCE MODELING OF FILM COOLING
07/12/1994 – 07/11/1998 FY97: –$36,001 Total: $168,754
Prin. Invest.: S ACHARYA
Tech. Officer: LERC/J R SCHWAB
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 3082 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4895**
ACCRETION ONTO MAGNETIC DEGENERATE STARS
09/22/1995 – 09/30/1997 FY97: $0 Total: $116,000
Prin. Invest.: G CHANMUGAM
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3338 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4896**
UNDERSTANDING THE EVOLUTION OF H–DEFICIENT STARS
11/13/1996 – 11/14/1997 FY97: $39,800 Total: $39,800
Prin. Invest.: G C CLAYTON
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3531 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4897**
DO WE NEED REALISTIC MODELING OF COMPOSITE INTERST ELLAR DUST GRAINS
11/15/1996 – 11/14/1997 FY97: $74,000 Total: $74,000
Prin. Invest.: G CLAYTON
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3756 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4898**
MICROGRAVITY EFFECTS ON EARLY REPRODUCTIVE DEVELOP
12/05/1996 – 09/30/1997 FY97: $63,157 Total: $63,157
Prin. Invest.: M A MUSGRAVE
Tech. Officer: GSFC/V S SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 3770 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4899**
ADVANCED CALORIMETER FOR COMPOSITION OF ELEMENTS O CCESS) TO STUDY > 10 TEV COSMIC RAYS
03/07/1997 – 01/31/1999 FY97: $65,736 Total: $65,736
Prin. Invest.: D P WEFEL
Tech. Officer: GSFC/R HOWARD
CASE Category: 13 – PHYSICS

NAG 5 4154 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4900**
A SPDS NODE TO SUPPORT THE SYSTEMATIC INTERPRETATI
03/17/1997 – 03/31/1998 FY97: $18,441 Total: $18,441
Prin. Invest.: D G GUZIK
Tech. Officer: GSFC/J WILLETT
CASE Category: 13 – PHYSICS

NAG 5 5064 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4901**
THE ADVANCED THIN IONIZATION CALORIMETER (ATIC) BALLOON EXPERIMENT
05/03/1996 – 03/31/1998 FY97: $522,000 Total: $761,000
Prin. Invest.: J P WEFEL
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 5127 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4902**
MINUTE OF ARC RESOLUTION GAMMA–RAY IMAGING EXPERIMENT (MARGIE)
07/02/1997 – 03/31/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: M CHERRY
Tech. Officer: GSFC/H NEEDLEMAN
CASE Category: 13 – PHYSICS

NAG 9 714 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4903**
CATABOLIC EFFECTS OF WEIGHTLESSNESS & PROPOSED COU NTERMEASURE
09/29/1993 – 08/31/1997 FY97: $0 Total: $1,369,000
Prin. Invest.: G A BRAY
Tech. Officer: JSC/H LANE
CASE Category: 56 – MEDICL

NAG 9 860 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4904**
ASTROCULTURE METABOLISM AND ULTRASTUCTURE ANALYSIS
01/31/1996 – 02/11/1997 FY97: $0 Total: $10,010
Prin. Invest.: D MUSGRAVE, D PORTERFIELD
Tech. Officer: JSC/D J BARTA
CASE Category: 55 – AGRICULTURE

NAGW 1027 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4905**
COMPOSITION AND TRANSPORT OF GALACTIC COSMIC RAYS
12/01/1986 – 06/15/1996 FY97: –$554 Total: $1,104,583
Prin. Invest.: J P WEFEL
Tech. Officer: HQ/M M MELLOTT, HQ/W V JONES
CASE Category: 13 – PHYSICS

NAGW 1526 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4906**
THE SYSTEMATIC INTERPRETATION OF COSMIC RAY DATA
12/14/1988 – 09/30/1997 FY97: $0 Total: $934,652
Prin. Invest.: T G GUZIK
Tech. Officer: HQ/M M MELLOTTE, HQ/W V JONES
CASE Category: 13 – PHYSICS

NAGW 3744 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4907**
DESIGN AND DEVELOPMENT FOR A MINUTE–OF–ARC RESOLUT ION GAMMA RAY IMAGING EXPERIMENT
09/29/1993 – 03/31/1997 FY97: $0 Total: $185,000
Prin. Invest.: M L CHERRY
Tech. Officer: HQ/L J KALUZIENSKI, HQ/A N BUNNER
CASE Category: 11 – ASTRONOMY

NAGW 3759 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4908**
DEVELOPMENTAL AND PHYSIOLOGICAL PROCESSES INFLUENC ING SEED PRODUCTION INMICROGRAVITY
09/17/1993 – 09/30/1996 FY97: $0 Total: $171,582
Prin. Invest.: M MUSGRAVE
Tech. Officer: HQ/T W HALSTEAD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 4221 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4909**
A GEOGRAPHIC INFORMATION SYSTEM FOR THE CHARACTERIZATION & MODELING OF MULTISCALE SENSING
12/20/1994 – 08/31/1997 FY97: $0 Total: $159,904
Prin. Invest.: N LAM
Tech. Officer: HQ/R S MCGINNIS
CASE Category: 22 – COMPUTER SCIENCE

NAGW 4404 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4910**
A SPDS NODE TO SUPPORT THE SYSTEMATIC INTERPRETATI ON OF COSMIC RAY DATA
04/04/1995 – 07/31/1997 FY97: $0 Total: $44,547
Prin. Invest.: T G GUZIK
Tech. Officer: HQ/J WILLEH
CASE Category: 13 – PHYSICS

NAGW 4577 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4911**
ADVANCED THIN IONIZATION CALORIMETER (ATIC)
06/28/1995 – 03/31/1998 FY97: $0 Total: $747,467
Prin. Invest.: J P WEFEL
Tech. Officer: HQ/W V JONES, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAG10 139 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4912**
PLANT REPRODUCTIVE DEVELOPMENT IN MICROGRAVITY
06/07/1994 – 11/06/1997 FY97: $99,713 Total: $467,508
Prin. Invest.: M E MUSGRAVE
Tech. Officer: KSC/W M KNOTT
CASE Category: 55 – AGRICULTURE

NCC 3 435 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4913**
NUMERICAL STUDY OF MAGNETIC DUMPING DIRECTIONA SOL IDIFICATION
10/01/1995 – 08/31/1997 FY97: –$1,414 Total: $13,580
Prin. Invest.: B Q LI
Tech. Officer: LERC/N AVAILABLE
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 5 167 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4914**
NASA EPSCOR PROGRAM
11/02/1996 – 05/31/1998 FY97: $1,000,000 Total: $1,000,000
Prin. Invest.: J P WEFEL
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCCW 59 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4915**
EXPERIMENTAL PROGRAM TO STIMULATE COMPETITIVE RES
07/01/1994 – 05/31/1997 FY97: $0 Total: $1,000,000
Prin. Invest.: J P WEFEL, E GOODELL
Tech. Officer: HQ/L KEFFER, HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 40039 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4916**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
04/10/1991 – 09/30/1997 FY97: $0 Total: $1,179,000
Prin. Invest.: J P WEFEL
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51015 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4917**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/14/1993 – 07/31/1996 FY97: –$2,423 Total: $63,577
Prin. Invest.: D L CARVER
Tech. Officer: SSC/A JOYCE
CASE Category: 22 – COMPUTER SCIENCE

NGT 51097 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4918**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/22/1993 – 06/30/1996 FY97: $0 Total: $66,000
Prin. Invest.: M E MUSGRAVE
Tech. Officer: KSC/B MARTIN
CASE Category: 55 – AGRICULTURE

NGT 51183 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4919**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/29/1993 – 08/22/1996 FY97: –$17,015 Total: $48,985
Prin. Invest.: N LAM
Tech. Officer: MSFC/B SWINFORD
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 51197 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4920**
NGT–51197/LOUISIANA STATE UNIV/GSRP
11/05/1993 – 02/28/1997 FY97: $0 Total: $66,000
Prin. Invest.: B A MCKEE
Tech. Officer: SSC/A JOYCE
CASE Category: 33 – OCEANOGRAPHY

NGT 51214 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4921**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/06/1994 – 07/31/1997 FY97: $0 Total: $552
Prin. Invest.: D L CARVER
Tech. Officer: SSC/A JOYCE
CASE Category: 22 – COMPUTER SCIENCE

NGT 51215 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4922**
GRADUATE STUDENT RESEARCHERS PROGRAM
04/25/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: D D ADRIAN
Tech. Officer: HQ/E MASSEY
CASE Category: 44 – CIVIL ENGR

NGT 90197 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4923**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/27/1993 – 08/14/1996 FY97: –$10,052 Total: $22,548
Prin. Invest.: A STERLING
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90198 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4924**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/27/1993 – 06/30/1997 FY97: –$6,614 Total: $23,986
Prin. Invest.: A STERLING
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40035 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4925**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIPPROGRAM.
02/13/1997 – 02/28/1998 FY97: $205,000 Total: $205,000
Prin. Invest.: J P WEFEL
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90034 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4926**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR) D.JACKSON
01/29/1997 – 08/14/1997 FY97: $3,795 Total: $3,795
Prin. Invest.: A M STERLING
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 49 – ENGINEERING, OTHER

NGT 9 10 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4927**
SPACECRAFT
07/03/1996 – 06/30/1998 FY97: $9,800 Total: $29,770
Prin. Invest.: D F DAY
Tech. Officer: JSC/D G SICKOREZ
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NGT13 52701 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4928**
TRAINING GRANT – FLUX IN MARSHES SAME
06/23/1995 – 08/01/1997 FY97: $0 Total: $44,000
Prin. Invest.: J CRUISE
Tech. Officer: SSC/JOYCE
CASE Category: 49 – ENGINEERING, OTHER

NGT13 52703 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4929**
TRAINING GRANT – HIGH RESOLUTION CLOUD AND SEA SURFACE TEATURE CLIMATOLOGY
06/23/1995 – 08/01/1997 FY97: $0 Total: $44,000
Prin. Invest.: L ROUSE, JR.
Tech. Officer: SSC/JOYCE
CASE Category: 49 – ENGINEERING, OTHER

NGT13 72701 LOUISIANA STATE UNIVERSITY – BATON ROUGE **4930**
TRAINING GRANT – THE USE OF REMOTE SENSING TECHNIQUES TO IDENTIFY SOIL TYPES
06/23/1995 – 05/31/1997 FY97: $0 Total: $33,000
Prin. Invest.: W HUDNALL
Tech. Officer: SSC/JOYCE
CASE Category: 49 – ENGINEERING, OTHER

NAG 1 1844 LOUISIANA TECH UNIVERSITY **4931**
IMPLICIT AND MULTIGRID METHOD FOR IMPROVNG VOR3D1 CODE
05/30/1996 – 11/30/1997 FY97: $0 Total: $37,900
Prin. Invest.: C LIU
Tech. Officer: LARC/C H LIU
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1891 LOUISIANA TECH UNIVERSITY **4932**
NUMERICAL SIMULATION AND MODELING FOR 3–D TRANSIT– IONAL AND TURBULENT FLOW
01/16/1997 – 01/15/1998 FY97: $19,998 Total: $19,998
Prin. Invest.: C LIU
Tech. Officer: LARC/C H LIU
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 90196 LOUISIANA TECH UNIVERSITY **4933**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/27/1993 – 08/14/1996 FY97: $0 Total: $36,000
Prin. Invest.: F AKI
Tech. Officer: HQ/D RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90004 LOUISIANA TECH UNIVERSITY **4934**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
02/03/1997 – 08/14/1997 FY97: $24,000 Total: $24,000
Prin. Invest.: F AKL
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT13 52700 LOUISIANA TECH UNIVERSITY **4935**
TRAINING GRANT THERMAL INSULATION SYSTEM FOR LARGE FLAME BUCKETS
06/22/1995 – 12/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: J L MAXWELL
Tech. Officer: SSC/JOYCE
CASE Category: 49 – ENGINEERING, OTHER

NCC 3 471 MCNEESE STATE UNIVERSITY **4936**
SUPPORT OF AIRS AND MIM FOR ISOLATION OF SPACE SCI ENCE EXP: DYNAMIC MODELING, OPTIMAL CONTROLLER SY
05/01/1996 – 04/30/1998 FY97: $46,453 Total: $85,264
Prin. Invest.: D HAMPTON*Prin. Invest.:* NONE
Tech. Officer: LERC/D M GRODSINSKY
CASE Category: 46 – MECHANICAL ENGR

NAG 5 4293 NORTHEAST LOUISIANA UNIVERSITY **4937**
ANCIENT CRUST AND LACUSTRINE PLAIN SITES FOR MARS
04/18/1997 – 03/31/1999 FY97: $30,000 Total: $30,000
Prin. Invest.: D A DE HON
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 8 1206 SOUTHEASTERN LOUISIANA UNIVERSITY **4938**
JOVE
09/25/1995 – 08/31/1998 FY97: $71,620 Total: $110,620
Prin. Invest.: C W STEIDLEY, W A PARKINSON, W N NORTON
Tech. Officer: MSFC/D SIX
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG10 131 SOUTHEASTERN LOUISIANA UNIVERSITY **4939**
INVENTORY & MONITORING OF HERPETOLOGICAL_COMMUNIT– IES ON KSC/MERRITT IS NATIONAL WILDLIFE REFUGE
12/10/1993 – 01/02/1998 FY97: $17,314 Total: $56,748
Prin. Invest.: R A SEIGEL
Tech. Officer: KSC/W M KNOTT
CASE Category: 39 – ENVIRONMENTALSCI, OTHER

NAG 2 1006 SOUTHERN UNIV & A&M COLLEGE **4940**
QFT DESIGN FRAMEWORK FOR ROTORCRAFT CONTROL
08/25/1995 – 08/31/1998 FY97: $99,988 Total: $199,942
Prin. Invest.: L LAWSON
Tech. Officer: ARC/M B TISCHLER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 1015 SOUTHERN UNIV & A&M COLLEGE **4941**
LEARNING & GENERALIZATION USING NEURAL NETWORKS WI TH APPLICATIONS TO ON–LINE F–16 REFERENCE MODEL
09/22/1995 – 10/31/1997 FY97: $24,999 Total: $224,991
Prin. Invest.: S K TRIVEDI, J P MCGUIRK
Tech. Officer: ARC/A J HATCH, ARC/S P COLOMBANO
CASE Category: 43 – CHEMICAL ENGR

NAG 2 1159 SOUTHERN UNIV & A&M COLLEGE **4942**
AIR TRAFFIC CONTROL USING NEURAL NETWORKS
08/25/1997 – 07/31/1998 FY97: $102,000 Total: $102,000
Prin. Invest.: S K TRIVEDI
Tech. Officer: ARC/G S LEE
CASE Category: 22 – COMPUTER SCIENCE

NAG 2 1162 SOUTHERN UNIV & A&M COLLEGE **4943**
A PROPOSAL TO DEVELOP INTERACTIVE CLASSIFICATION T ECHNOLOGY
09/17/1997 – 06/30/1998 FY97: $75,973 Total: $75,973
Prin. Invest.: C DEBASSONET
Tech. Officer: ARC/R R DAPICE
CASE Category: 22 – COMPUTER SCIENCE

NAG 3 1662 SOUTHERN UNIV & A&M COLLEGE **4944**
INTELLIGENT KNOWLEDGE ACQUISITION FOR INTERACTIVE SOFTWARE FOR ROCKET ENGINE SYSTEM DESIGN
09/16/1994 – 12/31/1997 FY97: $0 Total: $275,001
Prin. Invest.: D MOREMAN
Tech. Officer: LERC/D F NOGA
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1824 SOUTHERN UNIV & A&M COLLEGE **4945**
INLET DISTRIBUTION AND SURGE/STALL INSTABILITY IN AXIAL COMPRESSION SYSTEMS
03/27/1996 – 07/31/1997 FY97: $27,081 Total: $54,081
Prin. Invest.: G S GREWAL, G S HAPRAWANA, O D NWOKAH
Tech. Officer: LERC/A K OWEN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1825 SOUTHERN UNIV & A&M COLLEGE **4946**
DEVELOPMENT OF INTEGRATED METHODOLOGY FOR ENGINE C OMPNENT DESIGN AND DESIGN OPTIMIZATION
04/17/1996 – 05/31/1999 FY97: $120,000 Total: $213,000
Prin. Invest.: R A MIRSHAMS, B Q LI
Tech. Officer: LERC/L BERKE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 2076 SOUTHERN UNIV & A&M COLLEGE **4947**
KNOWLEDGE PRESERVATION FOR DESIGN OF ROCKET SYSTEM S
09/26/1997 – 09/14/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: D MOREMAN, J DYER
Tech. Officer: LERC/D F NOGA
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 3660 SOUTHERN UNIV & A&M COLLEGE **4948**
EFFECTS OF AEROSOLS AND CLOUDS INTERACTION ON UV, PAR, AND CROP YIELDS
11/15/1996 – 11/14/1997 FY97: $99,977 Total: $99,977
Prin. Invest.: C H YANG
Tech. Officer: GSFC/A DOUGLAS
CASE Category: 13 – PHYSICS

NAG 5 5066 SOUTHERN UNIV & A&M COLLEGE **4949**
THE ADVANCED THIN IONIZATION CALORIMETER (ATIC) BALLOON EXPERIMENT
06/17/1996 – 03/31/1998 FY97: $135,000 Total: $195,000
Prin. Invest.: A R FAZELY
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAGW 3882 SOUTHERN UNIV & A&M COLLEGE **4950**
NAGW3882/B SOUTHERN UNIV. 36-MONTH MUTLI YR AWARD
03/15/1994 – 12/31/1996 FY97: $0 Total: $2,762,784
Prin. Invest.: V T MONTGOMERY, S S CHEHL
Tech. Officer: HQ/I M BLANKSON
CASE Category: 41 – AERONAUTICAL ENGNR

NAGW 4013 SOUTHERN UNIV & A&M COLLEGE **4951**
SPACE COMMUNICATION & INFO RESEARCH: INPROVED SPAC E LINK PERFORMANCE VIA CONCATENATEDFORWARD-ERROR
06/10/1994 – 12/31/1997 FY97: $200,000 Total: $500,000
Prin. Invest.: E W HINDS
Tech. Officer: HQ/H L THEISS
CASE Category: 22 – COMPUTER SCIENCE

NAGW 4481 SOUTHERN UNIV & A&M COLLEGE **4952**
LIQUID PHASE PIEZOELECTRIC IMMUNOSENSORS
05/30/1995 – 12/31/1997 FY97: $0 Total: $190,954
Prin. Invest.: A A SULEIMAN
Tech. Officer: HQ/G C FOGLEMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG10 149 SOUTHERN UNIV & A&M COLLEGE **4953**
LEAD IN POTABLE WATER
03/17/1995 – 03/31/1997 FY97: –$25,000 Total: $51,016
Prin. Invest.: I MIRSHAMS, A SULEIMAN
Tech. Officer: KSC/K POIMBOEUF, KSC/D BROXTON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG10 171 SOUTHERN UNIV & A&M COLLEGE **4954**
DEVELOPMENT & UTILICATION OF A MULTIPURPOSE ATMOSPHERIC CORROSION SENSOR
06/15/1995 – 05/14/1998 FY97: $96,995 Total: $314,985
Prin. Invest.: R DIWAN
Tech. Officer: KSC/R LEE, KSC/K POIMBOEUF
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAG10 182 SOUTHERN UNIV & A&M COLLEGE **4955**
FRACTOGRAPHIC STUDIES & ANALYSES IN DATA BASE DOCUMENTATION & DEVELOPMENT
01/11/1996 – 02/10/1998 FY97: $75,000 Total: $125,000
Prin. Invest.: R M DIVWAN
Tech. Officer: KSC/R LEE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG10 210 SOUTHERN UNIV & A&M COLLEGE **4956**
RESEARCH & EDUCATION EXPERIENCES FOR MINORITY UNDERGRADUATES IN COMPOSITE MATERIAL
09/01/1997 – 08/31/1998 FY97: $200,000 Total: $200,000
Prin. Invest.: S S CHEHL
Tech. Officer: KSC/S MCDANIELS
CASE Category: 49 – ENGINEERING, OTHER

NCC 8 138 SOUTHERN UNIV & A&M COLLEGE **4957**
RESEARCH "COMPOSITE TRUSS DESIGN OPTIMIZATION"
07/15/1997 – 07/14/1998 FY97: $167,633 Total: $167,633
Prin. Invest.: C WANG
Tech. Officer: MSFC/D FORD
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 60004 SOUTHERN UNIV & A&M COLLEGE **4958**
NGT-60004/SOUTHERN UNIV/SUMMER FACULTY FELLOWSHIP PROGRAM
04/19/1991 – 08/31/1997 FY97: $0 Total: $817,172
Prin. Invest.: E HILDRETH, H
Tech. Officer: HQ/A S MCGEE, HQ/E SCHWARTZ
CASE Category: 49 – ENGINEERING, OTHER

NGT 90118 SOUTHERN UNIV & A&M COLLEGE **4959**
NGT-90118/SOUTHERN UNIV BATON ROUGE/UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
09/25/1992 – 08/14/1996 FY97: $0 Total: $48,000
Prin. Invest.: D BAGAYOKO
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90119 SOUTHERN UNIV & A&M COLLEGE **4960**
NGT-90119/SOUTHERN UNIV BATON ROUGE/UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
09/25/1992 – 08/14/1996 FY97: $0 Total: $48,000
Prin. Invest.: D BAGAYOKO
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90266 SOUTHERN UNIV & A&M COLLEGE **4961**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
01/27/1995 – 08/14/1996 FY97: $0 Total: $48,000
Prin. Invest.: D BAGOYOKO
Tech. Officer: HQ/D K RUSSELL
CASE Category: 13 – PHYSICS

NGT 5 90015 SOUTHERN UNIV & A&M COLLEGE **4962**
UNDERGRADUATE SCHOLAR AWARDS FOR RESEARCH (USAR)
12/16/1996 – 08/14/1997 FY97: $120,000 Total: $120,000
Prin. Invest.: D BAGAYOKO
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 13 – PHYSICS

NGT13 52709 SOUTHERN UNIV & A&M COLLEGE **4963**
1997 NASA/ASEE SUMMER FACULTY FELLOWSHIP PROGRAM AT STENNIS
03/21/1997 – 03/20/1998 FY97: $230,000 Total: $230,000
Prin. Invest.: E HILDRETH
Tech. Officer: SSC/A T JOYCE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG13 52 SOUTHERN UNIVERSITY – NEW ORLEANS **4964**
NASA/SUNO PARTNERSHIP FOR EXCELLENCE IN MATH & SCIENCE EDUCATION
06/30/1997 – 06/29/1998 FY97: $194,105 Total: $194,105
Prin. Invest.: P HEATH, R PERRY
Tech. Officer: JSC/N SULLIVAN
CASE Category: 21 – MATHEMATICS

NAG 2 999 TULANE UNIVERSITY **4965**
EFFECT OF MICROGRAVITY ON AFFERENT INNEVATION
08/16/1995 – 10/31/1997 FY97: $10,080 Total: $191,575
Prin. Invest.: C D FERMIN
Tech. Officer: ARC/C M WINGET, ARC/G C JAHNS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 2216 TULANE UNIVERSITY **4966**
CLOUD IDENTIFICATION USING GENETIC ALGORITHMS AND MASSIVELY PARALLEL COMPUTATION
02/18/1993 – 03/31/1997 FY97: $0 Total: $90,000
Prin. Invest.: B P BUCKLES, F E PETRI
Tech. Officer: GSFC/J R FISCHER/1
CASE Category: 22 – COMPUTER SCIENCE

NAG 8 1362 TULANE UNIVERSITY **4967**
FOR RESEARCH—PRODUCTION OF 125 DIOH D3 BY RENAL EPITHELIAL CELLS IN SIMULATED MICROGRAVITY CULTURE
06/18/1997 – 11/30/1997 FY97: $116,000 Total: $116,000
Prin. Invest.: T HAMMOND
Tech. Officer: JSC/S R GONDA
CASE Category: 56 – MEDICL

NAG 9 811 TULANE UNIVERSITY **4968**
DEFFERENTIATION OF NORMAL HUMAN RENAL EPITHELIAL C CELLS IN MICROGRAVITY
03/08/1996 – 09/17/1998 FY97: $189,000 Total: $572,000
Prin. Invest.: D HAMMOND
Tech. Officer: JSC/N PELLIS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 9 826 TULANE UNIVERSITY **4969**
CELL CULTIVATION
08/09/1995 – 08/15/1998 FY97: $97,000 Total: $324,000
Prin. Invest.: K O'CONNER
Tech. Officer: JSC/N PELLIS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 1516 TULANE UNIVERSITY **4970**
INFLUENCE OF SYNAPTOGENESIS
11/21/1988 – 04/30/1996 FY97: $0 Total: $288,193
Prin. Invest.: C D FERMIN
Tech. Officer: HQ/T W HALSTEAD
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 2 5011 TULANE UNIVERSITY **4971**
CONSTRUCTION OF A SPECIALIZED CLONING STRAIN OF E COLI FOR THE NITRATE REDUCTASE GENES OF HALOFERAX
11/24/1993 – 11/30/1997 FY97: $0 Total: $29,700
Prin. Invest.: E J JOHNSON
Tech. Officer: ARC/L I HOCHSTEIN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 30262 TULANE UNIVERSITY **4972**
GLOBAL CHANGE FELLOWSHIP AWARD
09/21/1994 – 08/31/1998 FY97: $0 Total: $66,000
Prin. Invest.: R G WATTS
Tech. Officer: HQ/J S THEON, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 90223 TULANE UNIVERSITY **4973**
UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
09/14/1993 – 08/14/1996 FY97: $0 Total: $36,000
Prin. Invest.: S SULLIVAN
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 1 1625 UNIVERSITY OF NEW ORLEANS **4974**
SIGNAL ANALYSIS OF DYNAMIC DATA FROM THE SEDS SATELLITE AND DEPLOYER
04/21/1994 – 08/31/1996 FY97: $1 Total: $24,128
Prin. Invest.: J W IUOP, G E IOUP
Tech. Officer: LARC/B T UPCHURCH
CASE Category: 13 – PHYSICS

NAG 3 1658 UNIVERSITY OF NEW ORLEANS **4975**
CRITICAL PHENOMEENON, ELECTRODYNAMICS, AND GEOPHYS ICAL FLOWS
10/19/1994 – 06/30/1997 FY97: $0 Total: $140,000
Prin. Invest.: J HEGSETH
Tech. Officer: LERC/H K NAHRA, LERC/A WILKINOON
CASE Category: 13 – PHYSICS

NAG 3 1906 UNIVERSITY OF NEW ORLEANS **4976**
GROWTH AND MORPHOLOGY OF PHASE SEPARATING SUPERCRI TIAL FLUIDS
06/10/1996 – 06/09/2000 FY97: $53,000 Total: $132,998
Prin. Invest.: J P DROSKE
Tech. Officer: LERC/W B ALSTON
CASE Category: 12 – CHEMISTRY

NAG 3 1915 UNIVERSITY OF NEW ORLEANS **4977**
A GEOPHYSICAL FLOW EXPERIMENT IN A COMPRESSIBLE CR ITICAL FLUID
07/16/1996 – 07/16/1998 FY97: $70,000 Total: $140,000
Prin. Invest.: J HEGSETH
Tech. Officer: LERC/R A WILKINSON
CASE Category: 13 – PHYSICS

NAG 5 6165 UNIVERSITY OF NEW ORLEANS **4978**
PLANET EARTH WORKSHOPS FOR TEACHERS OF PHYSICAL SC
08/19/1997 – 07/31/1998 FY97: $10,700 Total: $10,700
Prin. Invest.: J J SULLIVAN
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 8 1116 UNIVERSITY OF NEW ORLEANS **4979**
JOVE
01/10/1995 – 05/31/1998 FY97: $0 Total: $123,964
Prin. Invest.: J J HEGSETH, M L JOHNSON, J J HOWARD
Tech. Officer: MSFC/F SIX
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51317 UNIVERSITY OF NEW ORLEANS **4980**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/14/1994 – 06/30/1997 FY97: $0 Total: $20,896
Prin. Invest.: E P RUSSO
Tech. Officer: SSC/A JOYCE
CASE Category: 46 – MECHANICAL ENGR

NGT13 52702 UNIVERSITY OF NEW ORLEANS **4981**
TRAINING GRANT USING SINDA TO DEVELOP COMPUTER MODEL APPLICATIONS FOR SSC
06/23/1995 – 08/01/1997 FY97: –$8,590 Total: $13,410
Prin. Invest.: E RUSSO
Tech. Officer: SSC/JOYCE
CASE Category: 49 – ENGINEERING, OTHER

NGT13 52706 UNIVERSITY OF NEW ORLEANS **4982**
THE APPLICATION OF THE NONCLASSICAL DYNAMICAL THEORY OF THERMO–ELASTICITY OF THE COOLINGTANK
05/23/1996 – 08/01/1999 FY97: $22,000 Total: $44,000
Prin. Invest.: D PURI
Tech. Officer: SSC/D JOYCE
CASE Category: 41 – AERONAUTICAL ENGNR

NGT13 52711 UNIVERSITY OF NEW ORLEANS **4983**
GRADUATE STUDENT PROGRAM–ANALYSIS OF HYDROGEN FLARE STACKS
07/22/1997 – 07/21/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: E RUSSO
Tech. Officer: JSC/A JOYCE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1733 UNIVERSITY OF SOUTHWESTERN LOUISIANA **4984**
COMPUTATIONAL MODELING OF ADVANCED LOW EMISSION CO MBUSTION CONCEPTS
04/12/1995 – 09/12/1996 FY97: $0 Total: $20,400
Prin. Invest.: N S WINOWICH
Tech. Officer: LERC/K P KUNDU
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 2842 UNIVERSITY OF SOUTHWESTERN LOUISIANA **4985**
INTELLIGENT INFORMATION FUSION AND MANAGEMENT PROT OTYPE APPLICABLE TO EOSDIS
12/14/1994 – 12/31/1997 FY97: $75,000 Total: $155,000
Prin. Invest.: N PISSINOU
Tech. Officer: GSFC/W CAMPBELL
CASE Category: 11 – ASTRONOMY

NAG 9 928 UNIVERSITY OF SOUTHWESTERN LOUISIANA **4986**
ANALYSIS & OPTIMIZATION LOW–GRAVITY TOW–PHASE HEAT RJECTION DEVICE PLANETARY THERMAL ENGERGY MGMT
02/13/1997 – 02/17/1998 FY97: $16,763 Total: $16,763
Prin. Invest.: W E SIMON, T L CHAMBERS, F M YOUNG
Tech. Officer: JSC/C D CROSS
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG10 190 UNIVERSITY OF SOUTHWESTERN LOUISIANA **4987**
RESPONSE SYSTEM OF PLANTS
03/25/1996 – 09/24/1997 FY97: $108,418 Total: $108,418
Prin. Invest.: K H HASENSTEIN
Tech. Officer: KSC/W M KNOTT
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG13 24 UNIVERSITY OF SOUTHWESTERN LOUISIANA **4988**
BUILDING AN INTEGRATED ENVIRONMENT BUILDING AN INTEGRATED ENVIRONMENT FOR MULTI–MEDIA
03/17/1993 – 11/30/1996 FY97: $0 Total: $213,178
Prin. Invest.: T WILLIAMS
Tech. Officer: SSC/JOYCE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3512 XAVIER UNIVERSITY – LOUISIANA **4989**
MASTAP AWARD PROJECT TEACH
01/24/1997 – 06/30/1997 FY97: $356,000 Total: $356,000
Prin. Invest.: E E EDUOK
Tech. Officer: GSFC/M MATEU
CASE Category: 12 – CHEMISTRY

NAGW 4628 XAVIER UNIVERSITY – LOUISIANA **4990**
PROJECT TEACH
07/24/1995 – 06/30/1998 FY97: $0 Total: $170,230
Prin. Invest.: E E EDUOK
Tech. Officer: HQ/D RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG13 53 XAVIER UNIVERSITY – LOUISIANA **4991**
PROJECT KAIZEN SAME
06/19/1997 – 06/18/1998 FY97: $187,980 Total: $187,980
Prin. Invest.: I HAMSA
Tech. Officer: SSC/N SULLIVAN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90004 XAVIER UNIVERSITY – LOUISIANA **4992**
TRAINING GRANT
01/01/1987 – 04/30/1997 FY97: $0 Total: $1,195,737
Prin. Invest.: G W BAKER
Tech. Officer: HQ/L WARREN, HQ/M MORGOLIS
CASE Category: 49 – ENGINEERING, OTHER

NGT 5 90084 XAVIER UNIVERSITY – LOUISIANA **4993**
SOAR 2 SUMMER BRIDGE PROGRAM
09/09/1997 – 04/30/1998 FY97: $135,508 Total: $135,508
Prin. Invest.: G BAKER
Tech. Officer: GSFC/L RANDOLPH
CASE Category: 49 – ENGINEERING, OTHER

MAINE

NAGW 1719 BOWDOIN COLLEGE **4994**
EFFECTS OF GRAVITY IN EARLY AMPHIBIAN EMBRYOS
04/17/1989 – 09/30/1996 FY97: $0 Total: $361,718
Prin. Invest.: C R PHILLIPS
Tech. Officer: HQ/T W HALSTEAD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 6002 UNIVERSITY OF MAINE – ORONO **4995**
SOILS, WATER, PEOPLE, AND PIXELS: A STUDY OF NANG
09/11/1997 – 01/14/1999 FY97: $284,993 Total: $284,993
Prin. Invest.: R RINDFUSS
Tech. Officer: HQ/A JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6041 UNIVERSITY OF MAINE – ORONO **4996**
TIME–SERIES FOREST CHANGE, LAND–COVER/LAND–USE CON ECONOMIC DRIVING FORCES IN THE NORTHERN PETEN DIS
07/23/1997 – 07/31/1998 FY97: $145,000 Total: $145,000
Prin. Invest.: S SADER
Tech. Officer: GSFC/A JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3746 UNIVERSITY OF MAINE – ORONO **4997**
ROOT–ASSOCIATED METHANE OXIDATION AND METHANOGENES IS: KEY DETERMINANTS OF METHANE EMISSIONS
09/16/1993 – 07/31/1997 FY97: $0 Total: $272,445
Prin. Invest.: G M KING
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4075 UNIVERSITY OF MAINE – ORONO **4998**
CONSTRUCTION OF A GLOBAL OCEAN WAVE CLIMATOLOGICAL ATLAS BASED ON GEOSAT DATA"
07/14/1994 – 04/18/1998 FY97: $0 Total: $116,949
Prin. Invest.: V PANCHANG
Tech. Officer: HQ/J S THEON
CASE Category: 33 – OCEANOGRAPHY

NGT 9 7 UNIVERSITY OF MAINE – ORONO **4999**
SUMMER FACULTY FELLOWSHIP
09/23/1996 – 09/30/1997 FY97: $0 Total: $14,952
Prin. Invest.: V CACCESE
Tech. Officer: JSC/E PRITCHARD
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 8 1219 UNIVERSITY OF NEW ENGLAND **5000**
JOVE
11/30/1995 – 08/31/1998 FY97: $19,000 Total: $61,000
Prin. Invest.: S I ZEEMAN
Tech. Officer: MSFC/D SIX
CASE Category: 33 – OCEANOGRAPHY

NAG 8 1004 UNIVERSITY OF SOUTHERN MAINE **5001**
JOVE
12/08/1993 – 05/31/1997 FY97: $0 Total: $38,854
Prin. Invest.:
Tech. Officer: MSFC/F SIX
CASE Category: 11 – ASTRONOMY

MARYLAND

NAG 5 2277 BOWIE STATE UNIVERSITY **5002**
RESEARCH AND DEVELOPMENT FOR AN INFORMATION ECOLOG Y
05/26/1993 – 09/30/1997 FY97: $0 Total: $306,994
Prin. Invest.: S SRIVASTAVA, N WAKIM
Tech. Officer: GSFC/W F TRUSZKOWESKI
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2829 BOWIE STATE UNIVERSITY **5003**
MODEL–BASED VQ FOR MULTISPECTRAL EARTH IMAGE DATA COMPRESSION
12/14/1994 – 12/31/1997 FY97: $50,000 Total: $134,935
Prin. Invest.: M MAREBOYANA
Tech. Officer: GSFC/W CAMPBELL
CASE Category: 11 – ASTRONOMY

NAG 5 2941 BOWIE STATE UNIVERSITY **5004**
SUMMER INSTITUTE IN ENGINEERING & COMPUTER APPLICATIONS (SIECA) PROGRAM
05/22/1995 – 05/31/1998 FY97: $178,134 Total: $534,963
Prin. Invest.: J LANGDON
Tech. Officer: GSFC/D MENCHEN
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 3084 BOWIE STATE UNIVERSITY **5005**
SATURDAY SCHOOL FOR HISPANIC FEMALES
10/02/1995 – 10/14/1996 FY97: $0 Total: $108,000
Prin. Invest.: D FINCH
Tech. Officer: GSFC/D MENCHAN
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 3546 BOWIE STATE UNIVERSITY **5006**
PROJECT SPACE (STUDENT PROGRAM FOR ACADEMIC AND CU LTURAL ENRICHMENT)
12/05/1996 – 08/31/1997 FY97: $106,000 Total: $106,000
Prin. Invest.: J LANGDON
Tech. Officer: GSFC/D MENCHAN
CASE Category: 11 – ASTRONOMY

NCC 5 145 BOWIE STATE UNIVERSITY **5007**
AUTOMATION OF SCHEDULING OF ORBIT DETERMINATION PR OGRAMS
07/30/1996 – 08/14/1997 FY97: $41,997 Total: $150,567
Prin. Invest.: P C CHI
Tech. Officer: GSFC/D A WEIDOW, GSFC/J R SPARMO
CASE Category: 11 – ASTRONOMY

NCC 5 201 BOWIE STATE UNIVERSITY **5008**
BOWIE STATE'S SATELLITE OPERATIONS AND CONTROL CEN
06/27/1997 – 05/31/1998 FY97: $200,000 Total: $200,000
Prin. Invest.: N T WAKIM
Tech. Officer: GSFC/L GATTO
CASE Category: 49 – ENGINEERING, OTHER

NCC 5 232 BOWIE STATE UNIVERSITY **5009**
MODEL INSTITUTIONS FOR EXCELLENCE - PERIOD OF PERF
09/22/1997 - 09/30/1998 FY97: $1,007,569 Total: $1,007,569
Prin. Invest.: N WAKIM
Tech. Officer: GSFC/L RANDOLPH
CASE Category: 99 - MULTI INTERDISCPL, OTHER

NCCW 79 BOWIE STATE UNIVERSITY **5010**
MODEL INSTITUTIONS FOR EXCELLENCE PROGRAM
06/30/1995 - 08/30/1997 FY97: $1,000,000 Total: $3,173,194
Prin. Invest.: N WAKIM
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 - MULTI INTERDISCPL, OTHER

NAG 5 2942 CAPITOL COLLEGE **5011**
PRE-COLLEGE MINORITY ENGINEERING PROGRAM
05/22/1995 - 05/31/1998 FY97: $73,930 Total: $230,906
Prin. Invest.: D DRESNER
Tech. Officer: GSFC/MENCHAN
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 3456 CAPITOL COLLEGE **5012**
SATURDAY SCHOOL FOR HISPANIC FEMALES
10/10/1996 - 10/14/1997 FY97: $108,000 Total: $108,000
Prin. Invest.: J JARRELL
Tech. Officer: GSFC/D MENCHAN
CASE Category: 11 - ASTRONOMY

NAG 5 2042CENTER FOR ENVIRON & ESTUARINE STUDIES U OF MD. **5013**
TREE REGENERATION IN SMALL FOREST PATCHES: INTERA CTIONS OF BROWSING INTENSITY AND ABIOTIC FACTORS
07/15/1992 - 09/30/1996 FY97: $0 Total: $88,043
Prin. Invest.: S W SEAGLE
Tech. Officer: GSFC/G A SOFFEN, GSFC/P J SAKIMOTO
CASE Category: 54 - ENVIRONMENTAL BIOLOGY

NAG 5 6249CENTER FOR ENVIRON & ESTUARINE STUDIES U OF MD. **5014**
TIMES-SCALES OF LAND-USE CHANGE AND EXPORT OF N AN BASIN TO THE COASTAL ZONE
08/19/1997 - 01/31/1999 FY97: $167,500 Total: $167,500
Prin. Invest.: P R FISHER
Tech. Officer: GSFC/A C JANETOS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6286CENTER FOR ENVIRON & ESTUARINE STUDIES U OF MD. **5015**
REMOTE OBSERVATIONS AND MODELING OF PHYTOPLANKTON
09/10/1997 - 08/31/1998 FY97: $157,382 Total: $157,382
Prin. Invest.: L HARDING
Tech. Officer: GSFC/J HARDING
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAGW 3891CENTER FOR ENVIRON & ESTUARINE STUDIES U OF MD. **5016**
USE OF OCEAN COLOR DATA FROM SEAWIFS TO DETECT SEA SONAL & INTERANNUAL VARIABILITY OF PHYTOPLANKTON
03/18/1994 - 12/31/1997 FY97: $0 Total: $244,328
Prin. Invest.: L W HARDING, CF D'ELIA
Tech. Officer: HQ/A C JANETOS, HQ/D E WICKLAND
CASE Category: 33 - OCEANOGRAPHY

NAGW 3947CENTER FOR ENVIRON & ESTUARINE STUDIES U OF MD. **5017**
EVAL. OF REGIONAL & TEMPORAL VARIATION OF PRIMARY PRODUCTIV-ITY W/IN CASE II SHELF WATERS - SEAWIFS
04/20/1994 - 08/31/1997 FY97: $81,570 Total: $213,336
Prin. Invest.: T R FISHER, J HARDING
Tech. Officer: HQ/A C JANETOS, HQ/D E WICKLAND
CASE Category: 33 - OCEANOGRAPHY

NAS 5 97131CENTER FOR ENVIRON & ESTUARINE STUDIES U OF MD. **5018**
VALIDATION OF OCEAN COLOR
09/12/1997 - 09/11/1998 FY97: $255,700 Total: $255,700
Prin. Invest.: D G CAPONE
Tech. Officer: GSFC/C MCCLAIN
CASE Category: 33 - OCEANOGRAPHY

NCC 5 69 CHARLES COUNTY COMMUNITY COLLEGE **5019**
LAB INVESTIGATIONS OF FORMATION PROPERTIES & METAMORPHISM OF PRE-SOLAR MATERIALS
06/01/1994 - 05/31/1997 FY97: $14,107 Total: $71,030
Prin. Invest.: G KRAUSE
Tech. Officer: GSFC/J NUTH, GSFC/J ALLEN
CASE Category: 11 - ASTRONOMY

NAG 8 1315 COPPIN STATE COLLEGE **5020**
JOVE RESEARCH STUDY
01/28/1997 - 08/31/1998 FY97: $37,196 Total: $37,196
Prin. Invest.: M E OWENS
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 1 1673 JOHNS HOPKINS UNIVERSITY **5021**
AN ANALYSIS OF THE MAGNETO-OPTIC IMAGING SYSTEM
12/22/1994 - 12/31/1995 FY97: $0 Total: $115,087
Prin. Invest.: S NATH
Tech. Officer: LARC/N NAMKUNG
CASE Category: 45 - ELECTRICAL ENGR

NAG 1 1740 JOHNS HOPKINS UNIVERSITY **5022**
MICROWAVE METROLOGY FOR NONDESTRUCTIVE EVALUATION
07/19/1995 - 10/18/1996 FY97: $0 Total: $47,000
Prin. Invest.: J W WAGNER
Tech. Officer: LARC/E I MADARAS
CASE Category: 41 - AERONAUTICAL ENGNR

NAG 1 1811 JOHNS HOPKINS UNIVERSITY **5023**
NONDESTUCTIVE DETERMINATION OF BOND STRENGTH
02/26/1996 - 06/30/1998 FY97: $34,500 Total: $62,500
Prin. Invest.: R E GREEN, JR.
Tech. Officer: LARC/M J ROBERTS
CASE Category: 46 - MECHANICAL ENGR

NAG 3 1815 JOHNS HOPKINS UNIVERSITY **5024**
EXPERIMENTAL INVESTIGATION; POOL BOILING HEAT TRAN SFER ENHANCEMENT IN THE PRESENCE OF ELECTRIC FIEL
03/25/1996 - 03/24/2000 FY97: $42,951 Total: $111,070
Prin. Invest.: D HERMAN*Prin. Invest.:* NONE
Tech. Officer: LERC/H K NAHRA, LERC/B MOTIL
CASE Category: 46 - MECHANICAL ENGR

NAG 3 1923 JOHNS HOPKINS UNIVERSITY **5025**
MARANGONI EFF ON DROP DEFORM & BREAK UP IN A EXTEN FLOW: THE ROLE OF SURFACTANT PHYS CHEMISTRY
07/18/1996 – 07/17/2000 FY97: $35,000 Total: $135,000
Prin. Invest.: K J STEBE
Tech. Officer: LERC/B S SINGH
CASE Category: 43 – CHEMICAL ENGR

NAG 3 1924 JOHNS HOPKINS UNIVERSITY **5026**
ACOUSTIC BUBBLE REMOVAL FROM BOILING SURFACES
07/18/1996 – 07/17/2000 FY97: –$7,382 Total: $132,618
Prin. Invest.: A PROSPERETTI, H N OGUZ, E H TRINH
Tech. Officer: LERC/B S SINGH
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1925 JOHNS HOPKINS UNIVERSITY **5027**
PRODUCTION OF GAS BUBBLES IN REDUCED GRAVITY ENVIR ONMENTS
07/18/1996 – 07/17/1998 FY97: $59,999 Total: $119,998
Prin. Invest.: P OGUZ
Tech. Officer: LERC/H K NAHRA, LERC/B MOTIL
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1953 JOHNS HOPKINS UNIVERSITY **5028**
OPTIMIZATION OF ROBUST ROCKET–BASED COMBINED–CYCLE VEHICLES FOR SINGEL–STAGE–TO–ORBIT APPLICATIONS
08/15/1996 – 07/31/1997 FY97: $20,000 Total: $50,000
Prin. Invest.: D M VAN WIE, T RICE
Tech. Officer: LERC/C J TREFRY, LERC/C SNYDER
CASE Category: 41 – AERONAUTICALENGNR

NAG 3 1954 JOHNS HOPKINS UNIVERSITY **5029**
SURFACTANT BASED CRITICAL PHENOMENA IN MICROGRAVIT Y
08/19/1996 – 08/31/2000 FY97: $40,000 Total: $98,500
Prin. Invest.: M E PAULATIS
Tech. Officer: LERC/B SINGH
CASE Category: 43 – CHEMICAL ENGR

NAG 3 1964 JOHNS HOPKINS UNIVERSITY **5030**
INVESTIGATION OF LASER GENERATIION AND DETECTION O F ULTRA-SOUND IN CERAMIC MATRIX COMPOSITES & INTER
09/06/1996 – 09/08/1997 FY97: $0 Total: $33,365
Prin. Invest.: D EHRLICH, D NAGLE
Tech. Officer: LERC/D U BAAKUNI, LERC/H KAUTZ
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 5 619 JOHNS HOPKINS UNIVERSITY **5031**
ROCHET AND LABORATORY EXPERIMENTS IN AERONOMY AND ASTRONOMY
03/01/1983 – 12/31/1997 FY97: $0 Total: $7,923,000
Prin. Invest.: P D FELDMAN, A F DAVIDSEN, W G FASTIE
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 1099 JOHNS HOPKINS UNIVERSITY **5032**
DATA INTERFACES ISTP GROUND BASED DARN PROGRAM
11/01/1988 – 02/28/1998 FY97: $310,000 Total: $2,248,000
Prin. Invest.: R A GREENWALD
Tech. Officer: GSFC/S A CURTIS, GSFC/M H ACUNA
CASE Category: 13 – PHYSICS

NAG 5 1617 JOHNS HOPKINS UNIVERSITY **5033**
SEARCH FOR CLOSE COMPANIONS OF NEARBY STARS AND TO SIMULATE ST IMAGES IN THE LABORATORY
05/24/1991 – 10/31/1997 FY97: $35,000 Total: $853,276
Prin. Invest.: W G FASTIE
Tech. Officer: GSFC/S SOBIESKI
CASE Category: 11 – ASTRONOMY

NAG 5 1953 JOHNS HOPKINS UNIVERSITY **5034**
ROSAT IMAGING OF NGC 7793
03/26/1992 – 03/31/1997 FY97: $0 Total: $35,000
Prin. Invest.: W P BLAIR
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 1991 JOHNS HOPKINS UNIVERSITY **5035**
X–RAY OBSERVATRIONS OF A WIND FROM A DWARF GALAXY
06/05/1992 – 12/14/1997 FY97: $10,503 Total: $88,108
Prin. Invest.: T M HECKMAN
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2039 JOHNS HOPKINS UNIVERSITY **5036**
RADIATIVE AND CONVECTIVE PROCESSES
07/17/1992 – 04/30/1998 FY97: $100,000 Total: $728,174
Prin. Invest.: A ARKING
Tech. Officer: GSFC/K M LAU
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2128 JOHNS HOPKINS UNIVERSITY **5037**
OPTIMAL TEMPORAL SAMPLING INTERVALS FOR DETECTING LAND-SCAPE VEGETATION CHANGES
10/28/1992 – 10/31/1996 FY97: $0 Total: $88,000
Prin. Invest.: J KOU
Tech. Officer: GSFC/E HALL, GSFC/D E SMITH
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2232 JOHNS HOPKINS UNIVERSITY **5038**
RECEIVER DESIGN, PERFORMANCE ANALYSIS, AND EVLUATI ON FOR SPACE–BORNE LASER ALTIMETERS AND
04/08/1993 – 04/14/1998 FY97: $104,418 Total: $736,807
Prin. Invest.: M DAVIDSON, X SUN
Tech. Officer: GSFC/P MILLAR
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 2398 JOHNS HOPKINS UNIVERSITY **5039**
VOYAGER OBSERVATIONS OF THE DIFFUSE FUV RADIATION FIELD
10/22/1993 – 10/31/1997 FY97: $0 Total: $140,400
Prin. Invest.: J N MURTHY
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2465 JOHNS HOPKINS UNIVERSITY **5040**
DETERMINING GAS DENSITIES AND GRAIN COMPOSITIONS
01/04/1994 – 10/14/1996 FY97: $0 Total: $2,000
Prin. Invest.: R H BUSS
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2548 JOHNS HOPKINS UNIVERSITY **5041**
THE MOST LUMINOUS OBJECT IN THE UNIVERSE: PROTOGA LAXY OR SHROUDED QUASAR
03/03/1994 – 11/30/1997 FY97: $16,751 Total: $60,231
Prin. Invest.: T M HECKMAN
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2622 JOHNS HOPKINS UNIVERSITY **5042**
EUVE OVSERVATIONS OF THE JUPITER SYSTEM
06/28/1994 – 07/31/1997 FY97: $0 Total: $82,180
Prin. Invest.: D T HALL
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 2728 JOHNS HOPKINS UNIVERSITY **5043**
STAR FORMING DWARF GALAXIES AND THE X–RAY BACK– GROUND
09/21/1994 – 03/31/1997 FY97: $0 Total: $59,367
Prin. Invest.: R GRIFFITHS
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2935 JOHNS HOPKINS UNIVERSITY **5044**
SIMULTANEOUS X–RAY AND FAR ULTRAVIOLET SPECTRA OF AGN WITH ASCA AND HUT
05/10/1995 – 11/14/1997 FY97: $0 Total: $50,000
Prin. Invest.: G KRISS
Tech. Officer: GSFC/N WHITE
CASE Category: 12 – CHEMISTRY

NAG 5 3187 JOHNS HOPKINS UNIVERSITY **5045**
INVESTIGATING MAGNETOSPHERIC DYNAMICS WITH THE POL AR SATELLITE UV AND VISIBLE IMAGERS
03/26/1996 – 03/31/1998 FY97: $507,600 Total: $1,000,000
Prin. Invest.: C MENG
Tech. Officer: GSFC/R A HOFFMAN
CASE Category: 13 – PHYSICS

NAG 5 3251 JOHNS HOPKINS UNIVERSITY **5046**
HUBE: HOPKINS ULTRAVIOLET BACKGROUND EXPLORER
06/03/1996 – 06/14/1998 FY97: $0 Total: $400,000
Prin. Invest.: D C HENRY
Tech. Officer: GSFC/M D DAVIS
CASE Category: 11 – ASTRONOMY

NAG 5 3255 JOHNS HOPKINS UNIVERSITY **5047**
THE STRUCTURE OF ACTIVE GALACTIC NUCLEI
06/06/1996 – 04/30/1997 FY97: $78,000 Total: $152,700
Prin. Invest.: G A KRISS
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3316 JOHNS HOPKINS UNIVERSITY **5048**
JHU PARTICIPATION IN GO AND GTO PROGRAMS OF THE IN FRARED SPACE OBSERVATORY
07/31/1996 – 08/14/1997 FY97: $0 Total: $62,400
Prin. Invest.: D A NEUFELD
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3331 JOHNS HOPKINS UNIVERSITY **5049**
VARIABILITY ANALYSIS AND THE STRUCTURE OF ACTIVE GALACTIC NUCLEI
08/13/1996 – 08/14/1997 FY97: $0 Total: $155,863
Prin. Invest.: J H KROLLK
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3375 JOHNS HOPKINS UNIVERSITY **5050**
SPACE OBSERVATIONS OF STARBURST GALAXIES
08/28/1996 – 08/31/1997 FY97: $0 Total: $150,072
Prin. Invest.: T HECKMEN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3380 JOHNS HOPKINS UNIVERSITY **5051**
INVESTIGATING THE X–RAY REPROCESSOR IN MCG–5–23–16
08/30/1996 – 02/28/1998 FY97: $15,000 Total: $15,000
Prin. Invest.: K WEAVER
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3419 JOHNS HOPKINS UNIVERSITY **5052**
STATISTICAL CROSS–CORRELATION STUDY OF THE COSMIC X–RAY BACKGROUND IN OPTICAL DEEP MULTICOLOR PHOTOM
09/14/1996 – 03/14/1998 FY97: $0 Total: $12,500
Prin. Invest.: A SZALAY
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3448 JOHNS HOPKINS UNIVERSITY **5053**
FAR ULTRAVIOLET SPECTROSCOPIC EXPLORER (FUSE) OUTR EACH INITIATIVE.
10/04/1996 – 10/14/1997 FY97: $10,000 Total: $10,000
Prin. Invest.: D MOOS, D HOLMES
Tech. Officer: GSFC/D R MENGERS, GSFC/O FINGUEROA
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 3452 JOHNS HOPKINS UNIVERSITY **5054**
TOWARD THE DEVELOPMENT OF GALLIUM NITRIDE PHOTOVOL TAIC DETECTORS
10/15/1996 – 02/14/1997 FY97: $25,000 Total: $25,000
Prin. Invest.: D K WICKENDAN, T J KISTENMACHER
Tech. Officer: GSFC/D B MOTT, GSFC/P K SHU
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 3485 JOHNS HOPKINS UNIVERSITY **5055**
DIFFUSE IONIZED GAS IN GALACTIC ENVIRONMENTS
10/31/1996 – 10/31/1997 FY97: $109,300 Total: $109,300
Prin. Invest.: K R SEMBACH
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3503 JOHNS HOPKINS UNIVERSITY **5056**
THE EVOLUTION AND CLUSTERING OF GALAXIES AT Z=1 AN
11/27/1996 – 11/30/1997 FY97: $100,811 Total: $100,811
Prin. Invest.: A S SZALAY
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3504 JOHNS HOPKINS UNIVERSITY **5057**
A ROBUST TEST OF THE UNIFIED MODEL FOR SEYFERT GAL IMPLICATIONS FOR THE STARBURST PHENOMENON
11/27/1996 – 11/30/1997 FY97: $80,675 Total: $80,675
Prin. Invest.: K A WEAVER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3537 JOHNS HOPKINS UNIVERSITY **5058**
PROBING THE X-RAY AND OPTICAL EVOLUTION OF GALAXY ROSAT DEEP CLUSTER SURVEY
11/27/1996 – 11/30/1997 FY97: $61,700 Total: $61,700
Prin. Invest.: C A NORMAN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3542 JOHNS HOPKINS UNIVERSITY **5059**
A MULTIWAVELENGTH STUDY OF MOLECULES IN THE INTERS TELLAR MEDIUM
11/27/1996 – 05/31/1997 FY97: $115,800 Total: $115,800
Prin. Invest.: D A NEUFELD
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3704 JOHNS HOPKINS UNIVERSITY **5060**
PROBING LOW IONIZATION GAS IN STARS & AGNS: THE SI
01/24/1997 – 01/31/1998 FY97: $46,000 Total: $46,000
Prin. Invest.: B R ESPEY
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3869 JOHNS HOPKINS UNIVERSITY **5061**
DATA SET PRESERVATION FOR MAGNETIC FIELD EXPERIMENT VIKING SATELLITES
01/29/1997 – 01/31/1998 FY97: $31,386 Total: $31,386
Prin. Invest.: D B HOLLAND
Tech. Officer: GSFC/J WILLETT
CASE Category: 13 – PHYSICS

NAG 5 3879 JOHNS HOPKINS UNIVERSITY **5062**
MULTI-POINT, MAGNETOSPHERIC RECONNAISSANCE IMAGING DYNAMICS, EVOLUTION, ORIGINS, AND STRUCTURE
02/26/1997 – 02/28/1999 FY97: $92,314 Total: $92,314
Prin. Invest.: D G MITCHELL
Tech. Officer: GSFC/R HOWARD
CASE Category: 13 – PHYSICS

NAG 5 3928 JOHNS HOPKINS UNIVERSITY **5063**
CHEMICAL EVOLUTION OF THE MILKY WAY GALAXY
02/25/1997 – 02/28/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: R F WYSE
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3929 JOHNS HOPKINS UNIVERSITY **5064**
WHAT IS THE NATURE OF ACCRETION IN ACTIVE GALACTIC
03/03/1997 – 02/28/1998 FY97: $60,000 Total: $60,000
Prin. Invest.: J H KROLIK
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4009 JOHNS HOPKINS UNIVERSITY **5065**
INTERBALL: MAGNETOPAUSE STRUCTURE AND RESPONSE TO
03/06/1997 – 02/28/1998 FY97: $88,446 Total: $88,446
Prin. Invest.: D G SIBECK
Tech. Officer: GSFC/J D BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 4010 JOHNS HOPKINS UNIVERSITY **5066**
MODELING THE ENTRY OF SOLAR WIND PARTICLES INTO TH
03/06/1997 – 04/30/1998 FY97: $59,200 Total: $59,200
Prin. Invest.: D WING
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 4168 JOHNS HOPKINS UNIVERSITY **5067**
PLANETARY AERONOMY
03/15/1997 – 12/31/1997 FY97: $110,400 Total: $110,400
Prin. Invest.: D F STROBEL
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4199 JOHNS HOPKINS UNIVERSITY **5068**
AN INFRARED INVESTIGATION OF COMET HYAKUTAKE (1996
03/24/1997 – 03/31/1998 FY97: $46,271 Total: $46,271
Prin. Invest.: D WEAVER
Tech. Officer: GSFC/W HUEBNER
CASE Category: 11 – ASTRONOMY

NAG 5 4261 JOHNS HOPKINS UNIVERSITY **5069**
WINDOWLESS FUV LAMPS
04/14/1997 – 12/31/1997 FY97: $35,900 Total: $35,900
Prin. Invest.: D R MCCANDLISS
Tech. Officer: GSFC/HHASAN
CASE Category: 11 – ASTRONOMY

NAG 5 4365 JOHNS HOPKINS UNIVERSITY **5070**
CONTINUATION OF THE VOYAGER INTERSTELLAR MISSION:
04/23/1997 – 03/31/1998 FY97: $475,000 Total: $475,000
Prin. Invest.: D M KRIMIGIS
Tech. Officer: GSFC/J WILLETT
CASE Category: 13 – PHYSICS

NAG 5 4399 JOHNS HOPKINS UNIVERSITY **5071**
TO STUDY THE SOLAR TERRESTRIAL RELATIONS OBSERVATO
04/16/1997 – 04/14/1998 FY97: $130,000 Total: $130,000
Prin. Invest.: D M RUST
Tech. Officer: GSFC/J DAVILA
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 5 4525 JOHNS HOPKINS UNIVERSITY **5072**
PRESSURE PROFILES OF THE MAGNETOSPHERE AS REFLECTE OBSERVATIONS
05/02/1997 – 03/31/1998 FY97: $65,200 Total: $65,200
Prin. Invest.: D T NEWELL
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 4548 JOHNS HOPKINS UNIVERSITY **5073**
REFLECTRON TIME-OF-FLIGHT MASS SPECTROMETER INSTRU
05/05/1997 – 05/31/1998 FY97: $156,500 Total: $156,500
Prin. Invest.: D W MCENTIRE
Tech. Officer: GSFC/B CAMPBELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 4549 JOHNS HOPKINS UNIVERSITY **5074**
ANALYSIS OF EMIC WAVE GENERATION AND PROPAGATION U
05/06/1997 – 04/30/1998 FY97: $70,000 Total: $70,000
Prin. Invest.: D E ERLANDSON
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 4582 JOHNS HOPKINS UNIVERSITY **5075**
A LOW COST MERCURY ORBITER MISSION
05/13/1997 – 03/31/1999 FY97: $94,000 Total: $94,000
Prin. Invest.: D H MAUK
Tech. Officer: GSFC/R HOWARD
CASE Category: 13 – PHYSICS

NAG 5 4605 JOHNS HOPKINS UNIVERSITY **5076**
ANALYZING SPACE-BASED INTERFEROMETRIC MEASUREMENTS MEASUREMENTS OF GAMMA-RAY BURSTS
06/06/1997 – 04/30/1998 FY97: $85,000 Total: $85,000
Prin. Invest.: L G TAFF
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 4626 JOHNS HOPKINS UNIVERSITY **5077**
UNMASKING OBSCURED SEYFERT 1 NUCLEI WITH RXTE
05/21/1997 – 05/31/1998 FY97: $22,296 Total: $22,296
Prin. Invest.: K A WEAVER
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4664 JOHNS HOPKINS UNIVERSITY **5078**
ION CYCLOTRON WAVES: AN ISTP STUDY
06/25/1997 – 05/31/1998 FY97: $49,931 Total: $49,931
Prin. Invest.: D J ANDERSON
Tech. Officer: GSFC/J G GREBOWSKY
CASE Category: 13 – PHYSICS

NAG 5 4672 JOHNS HOPKINS UNIVERSITY **5079**
ISTP: MAGNETOSHEATH PROCESSES AND TRANSIENT EVENT
06/09/1997 – 05/31/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: D G SIBECK
Tech. Officer: GSFC/J GREBOWSKY
CASE Category: 13 – PHYSICS

NAG 5 4679 JOHNS HOPKINS UNIVERSITY **5080**
CONCERNING THE SOLAR WIND INPUT INTO THE MAGNETOSP
06/05/1997 – 05/31/1998 FY97: $17,000 Total: $17,000
Prin. Invest.: D G SIBECK
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 4696 JOHNS HOPKINS UNIVERSITY **5081**
DISCOVERY FEASIBILITY STUDIES: MESSENGER
05/23/1997 – 08/31/1997 FY97: $320,000 Total: $320,000
Prin. Invest.: T MUELLER
Tech. Officer: GSFC/M B NOLAN
CASE Category: 11 – ASTRONOMY

NAG 5 4697 JOHNS HOPKINS UNIVERSITY **5082**
DISCOVERY FEASIBILITY STUDIES: MESSENGER
05/23/1997 – 08/31/1997 FY97: $300,000 Total: $300,000
Prin. Invest.: M CHIU
Tech. Officer: GSFC/M B NOLAN
CASE Category: 11 – ASTRONOMY

NAG 5 4698 JOHNS HOPKINS UNIVERSITY **5083**
DISCOVERY FEASIBILITY STUDIES: MESSENGER
05/23/1997 – 08/31/1997 FY97: $330,000 Total: $330,000
Prin. Invest.: T PARDOE
Tech. Officer: GSFC/M B NOLAN
CASE Category: 11 – ASTRONOMY

NAG 5 4736 JOHNS HOPKINS UNIVERSITY **5084**
SCIENTIFIC AND TECHNICAL DEVELOPMENT OF THE NEXT G TELESCOPE
06/11/1997 – 06/14/1998 FY97: $52,682 Total: $52,682
Prin. Invest.: R BURG
Tech. Officer: GSFC/E P SMITH
CASE Category: 11 – ASTRONOMY

NAG 5 4780 JOHNS HOPKINS UNIVERSITY **5085**
RADIATIVE AND PHOTOCHEMICAL MODELING DURING POLARI
06/09/1997 – 12/31/1997 FY97: $186,402 Total: $186,402
Prin. Invest.: S A LLOYD
Tech. Officer: GSFC/M J KURYLO
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4955 JOHNS HOPKINS UNIVERSITY **5086**
AN OPTICAL INVESTIGATION OF THE GENESIS OF SOLAR A
06/23/1997 – 05/31/1998 FY97: $300,000 Total: $300,000
Prin. Invest.: D M RUST
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NAG 5 4969 JOHNS HOPKINS UNIVERSITY **5087**
COORDINATED ISTP SATELLITE - GROUND STUDY OF MAGNE PROCESSES
06/23/1997 – 06/14/1998 FY97: $72,200 Total: $72,200
Prin. Invest.: D OHTANI
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 5047 JOHNS HOPKINS UNIVERSITY **5088**
WIND-WAVE-CURRENT COUPLED MODEL
08/22/1995 – 08/31/1998 FY97: $34,011 Total: $269,738
Prin. Invest.: O PHILLIPS
Tech. Officer: GSFC/S R LONG, GSFC/N E HUANG
CASE Category: 33 – OCEANOGRAPHY

NAG 5 5082 JOHNS HOPKINS UNIVERSITY **5089**
MEASUREMENTS OF TEMPERATURE FOR THE STUDIES OF DAYGLOW EMISSIONS
06/14/1996 – 05/31/1998 FY97: $33,300 Total: $44,500
Prin. Invest.: J YEE
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 – PHYSICS

NAG 5 5122 JOHNS HOPKINS UNIVERSITY **5090**
ROCKET AND LABORATORY EXPERIMENTS IN ASTRONOMY
02/21/1997 – 02/28/1998 FY97: $548,000 Total: $548,000
Prin. Invest.: P D FELDMAN
Tech. Officer: GSFC/B J FLOWERS
CASE Category: 13 – PHYSICS

NAG 5 5138 JOHNS HOPKINS UNIVERSITY **5091**
ALTIMETER SEA-STATE BIAS MODEL STUDY FUNDING FOR THE FIRST YEAR OF THE GRANT
04/10/1997 – 05/31/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: D R THOMPSON
Tech. Officer: GSFC/D C VANDEMARK, GSFC/E J WALSH
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 6000 JOHNS HOPKINS UNIVERSITY **5092**
GLOBAL ATOMIC OXYGEN DISTRIBUTION IN THE MESOSPHER RE (80–105KM)
08/26/1997 – 07/31/1998 FY97: $72,700 Total: $72,700
Prin. Invest.: D YEE
Tech. Officer: GSFC/M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 6014 JOHNS HOPKINS UNIVERSITY **5093**
A COMPACT PARTICLE DETECTOR
09/15/1997 – 06/30/1998 FY97: $114,100 Total: $114,100
Prin. Invest.: D L MCNUTT
Tech. Officer: GSFC/B CAMPBELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 6050 JOHNS HOPKINS UNIVERSITY **5094**
LOW LATITUDE CURRENT SYSTEMS DETERMINED FROM SATEL OBSERVATIONS
07/28/1997 – 06/30/1998 FY97: $61,000 Total: $61,000
Prin. Invest.: D GARY
Tech. Officer: GSFC/M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 6113 JOHNS HOPKINS UNIVERSITY **5095**
PROJECT ULYSSES HI-SCALE DATA ANALYSIS PHASE ACTIV
07/28/1997 – 06/30/1998 FY97: $402,000 Total: $402,000
Prin. Invest.: M TOSSMAN
Tech. Officer: GSFC/J WILLETT
CASE Category: 13 – PHYSICS

NAG 5 6178 JOHNS HOPKINS UNIVERSITY **5096**
CRITICAL COMPARISON OF SUBSTORM TRIGGER MODELS AGA HE NEAR-EARTH TAIL
07/28/1997 – 05/14/1998 FY97: $62,900 Total: $62,900
Prin. Invest.: D OHTANI
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 6182 JOHNS HOPKINS UNIVERSITY **5097**
MAGNETIC FIELD-ALIGNED ELECTRODYNAMICS OF THE MIDD
07/30/1997 – 06/30/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: D H MAUK
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 8 1133 JOHNS HOPKINS UNIVERSITY **5098**
INTERDISCIPLINARY SCIENTIST FOR THE ADVANCED X-RAY ASTRO-PHYSIC FACILITY
01/11/1995 – 01/10/1998 FY97: $144,000 Total: $362,000
Prin. Invest.: R GIACCONI, R BURG
Tech. Officer: MSFC/M E ROSENTHAL
CASE Category: 11 – ASTRONOMY

NAG 8 1257 JOHNS HOPKINS UNIVERSITY **5099**
RESEARCH "MEASUREMENT OF LIQUID-TO-SOLID NUCLEATION RATES IN UNDERCOOLED METALLIC MELTS
04/18/1996 – 04/17/1998 FY97: $32,500 Total: $97,500
Prin. Invest.: J L KATZ
Tech. Officer: MSFC/P DOWNEY, MSFC/D WOODARD
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1377 JOHNS HOPKINS UNIVERSITY **5100**
R/S "NOVEL MICROGRAVITY OPTICAL TECHNIQUE FOR MOLECULARLY ENGINEERING ELECTROPHORETIC MEDIA.
07/23/1997 – 11/30/1997 FY97: $87,000 Total: $87,000
Prin. Invest.: D WIRTZ
Tech. Officer: MSFC/C TALLEY, MSFC/D SMITH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 648 JOHNS HOPKINS UNIVERSITY **5101**
PLANETARY AERONOMY
09/01/1984 – 06/30/1997 FY97: $0 Total: $1,037,896
Prin. Invest.: D F STROBEL
Tech. Officer: HQ/J T BERGSTRALH, HQ/W L QUAIDE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 1885 JOHNS HOPKINS UNIVERSITY **5102**
MID INFRARED SPECTROSCOPIC INVESTIGATIONS
12/06/1989 – 12/31/1996 FY97: $0 Total: $782,055
Prin. Invest.: J W SALISBURY
Tech. Officer: HQ/T A MAXWELL, HQ/M BALTUCK
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1890 JOHNS HOPKINS UNIVERSITY **5103**
ISSUES IN THE STUDY OF THE DIFFUSE COSMIC BACKGROUND RADI-ATION
12/14/1989 – 10/31/1997 FY97: $0 Total: $459,907
Prin. Invest.: R C HENRY
Tech. Officer: HQ/G C CLAYTON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 2508 JOHNS HOPKINS UNIVERSITY **5104**
THE STUDY OF CLUSTERS OF GALAXIES AND LARGE-SCALE STRUCTURE
07/25/1991 – 09/30/1997 FY97: $0 Total: $504,400
Prin. Invest.: R BURG
Tech. Officer: HQ/G S KUTTER, HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 2583 JOHNS HOPKINS UNIVERSITY **5105**
NAGW-2583/JOHN HOPKINS UNIV/MODELING PERPENDICULAR CURRENT SHEETS IN THE EARTH'S MAGNETOTAIL
08/12/1991 – 09/30/1997 FY97: $67,000 Total: $358,784
Prin. Invest.: D G MITCHELL
Tech. Officer: HQ/M M MELLOTT, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 2691 JOHNS HOPKINS UNIVERSITY **5106**
AUTOMATED UNFOLDING OF GLOBAL MAGNETOSPHERIC IMAGE S
08/07/1991 – 09/30/1997 FY97: $0 Total: $418,058
Prin. Invest.: B H MAUK
Tech. Officer: HQ/M M MELLOTT, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 2866 JOHNS HOPKINS UNIVERSITY **5107**
INTEGRATED DUAL IMAGING DETECTOR
02/10/1992 – 09/30/1997 FY97: $0 Total: $616,100
Prin. Invest.: D M RUST
Tech. Officer: HQ/JK ALEXANDER, HQ/D A HOLLAND
CASE Category: 11 – ASTRONOMY

NAGW 3058 JOHNS HOPKINS UNIVERSITY **5108**
NAGW-3058/JOHNS HOPKINS UNIV/GROUND-SATELLITE OBSERVATIONS OF PI2 PULSATIONS
04/27/1992 – 03/31/1996 FY97: $0 Total: $168,000
Prin. Invest.: K TAKAHASHI
Tech. Officer: HQ/E C WHIPPLE, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 3147 JOHNS HOPKINS UNIVERSITY **5109**
NAGW-3147/JOHNS HOPKINS UNIV/A MULTIWAVELENGTH STU DY OF MOLECULES IN THE INTERSTELLAR MEDIUM
08/04/1992 – 05/31/1997 FY97: $0 Total: $403,809
Prin. Invest.: D NEUFELD
Tech. Officer: HQ/G R REGLER
CASE Category: 11 – ASTRONOMY

NAGW 3156 JOHNS HOPKINS UNIVERSITY **5110**
NAGW-3156/JOHNS HOPKINS UNIV/VARIABILITY ANALYSIS AND THE STRUCTURE OF ACTIVE GALACTIC NUCLEI
09/04/1992 – 06/30/1997 FY97: $0 Total: $518,523
Prin. Invest.: J KROLIK
Tech. Officer: HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 3183 JOHNS HOPKINS UNIVERSITY **5111**
NAGW-3183/JOHNS HOPKINS UNIV/MISSION SCIENTIST ON THE EURO-PEAN SPACE AGENCY INFRARED SPACE OBSERVATO
09/15/1992 – 06/30/1997 FY97: $0 Total: $120,214
Prin. Invest.: D A NEUFELD
Tech. Officer: HQ/L J CAROFF
CASE Category: 11 – ASTRONOMY

NAGW 3288 JOHNS HOPKINS UNIVERSITY **5112**
NAGW-3288/JOHNS HOPKINS UNIV/HIGH ENERGY ASTROPHYS ICS RESEARCH & ANALYSIS PROGRAM
11/27/1992 – 06/30/1996 FY97: $0 Total: $399,985
Prin. Invest.: R E GRIFFITHS
Tech. Officer: HQ/L KALUZIENSKI
CASE Category: 11 – ASTRONOMY

NAGW 3387 JOHNS HOPKINS UNIVERSITY **5113**
SPACEBORNE GEOPHYSICAL SAMPLING DEVICE
02/25/1993 – 09/30/1997 FY97: $0 Total: $450,000
Prin. Invest.: A F CHENG
Tech. Officer: HQ/H C BRINTON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3394 JOHNS HOPKINS UNIVERSITY **5114**
PLANETARY GEOPHYSICS AND VOLCANISM
04/01/1993 – 08/31/1996 FY97: $0 Total: $137,736
Prin. Invest.: M T ZUBER
Tech. Officer: HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3449 JOHNS HOPKINS UNIVERSITY **5115**
CROSS FIELD CURRENT DISRUPTION MECHANISM FOR SUBST ORM INI-TIATION
03/19/1993 – 09/30/1997 FY97: $30,800 Total: $251,300
Prin. Invest.: A Y LUI
Tech. Officer: HQ/E C WHIPPLE, HQ/G L WITHBROE
CASE Category: 13 – PHYSICS

NAGW 3523 JOHNS HOPKINS UNIVERSITY **5116**
SUBSTORMS AND MAGENTIC FLUX EROSION
04/14/1993 – 01/31/1997 FY97: $0 Total: $177,137
Prin. Invest.: D G SIBECK
Tech. Officer: HQ/E C WHIPPLE, HQ/G L WITHBROE
CASE Category: 13 – PHYSICS

NAGW 3831 JOHNS HOPKINS UNIVERSITY **5117**
SPATIAL DISTRIBUTION AND EVOLUTION OF LYMAN
12/17/1993 – 12/31/1996 FY97: $0 Total: $105,000
Prin. Invest.: A S SZALAY
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 3861 JOHNS HOPKINS UNIVERSITY **5118**
JOHNS HOPKINS UNIV; STATISTICAL ANALYSIS OF TRIGON OMETRIC PAR-ALLAXES
01/31/1994 – 12/31/1998 FY97: $0 Total: $159,300
Prin. Invest.: S CASERTANO
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 3991 JOHNS HOPKINS UNIVERSITY **5119**
A GLOBAL 3D MODEL OF NEPTUNE'S MAGNETOSPHERE
06/15/1994 – 12/31/1996 FY97: $0 Total: $72,000
Prin. Invest.: R L MCNUTT
Tech. Officer: HQ/E C WHIPPLE, HQ/J D BOHLIN
CASE Category: 11 – ASTRONOMY

NAGW 4025 JOHNS HOPKINS UNIVERSITY **5120**
SPACE OBSERVATIONS OF STARBURST GALAXIES
06/07/1994 – 05/31/1996 FY97: $0 Total: $433,830
Prin. Invest.: T HECKMAN
Tech. Officer: HQ/D E NEW
CASE Category: 11 – ASTRONOMY

NAGW 4043 JOHNS HOPKINS UNIVERSITY **5121**
"HOT ION DYNAMICS OF JUPITER'S MAGNETOSPHERE"
06/14/1994 – 09/30/1997 FY97: $0 Total: $111,400
Prin. Invest.: M KANE
Tech. Officer: HQ/E C WHIPPLE, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4055 JOHNS HOPKINS UNIVERSITY **5122**
CORRELATIVE STUDIES OF INOSPHERIC ELECTRON TEMPERATURES AT HIGH LATITUDES
06/17/1994 – 04/30/1998 FY97: $0 Total: $209,900
Prin. Invest.: R E ERLANDSON
Tech. Officer: HQ/M MELLOTT
CASE Category: 13 – PHYSICS

NAGW 4133 JOHNS HOPKINS UNIVERSITY **5123**
DISTRIBUTION AND EVOLUTION OF EMIC WAVES IN THE EARTH'S MAGNETOSPHERE
09/13/1994 – 05/31/1998 FY97: $77,000 Total: $170,700
Prin. Invest.: B J ANDERSON
Tech. Officer: HQ/E C WHIPPLE, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4198 JOHNS HOPKINS UNIVERSITY **5124**
THE EFFECT OF MILD HYPERCAPNEA ON WEIGHTBEARING AND NONWEIGHTBEARING RAT BONE
11/09/1994 – 08/31/1997 FY97: $0 Total: $100,000
Prin. Invest.: L SCHULTHEIS
Tech. Officer: HQ/F M SULZMAN
CASE Category: 56 – MEDICL

NAGW 4424 JOHNS HOPKINS UNIVERSITY **5125**
PRESSURE PROFILES OF THE MAGNETOSPHERE AS REFLECTE D IN IONOSPHERIC OBSERVATIONS
04/21/1995 – 03/31/1998 FY97: $0 Total: $124,200
Prin. Invest.: P T NEWELL
Tech. Officer: HQ/M M MELLOTT, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4439 JOHNS HOPKINS UNIVERSITY **5126**
FRAMEWORK FOR THE STUDY OF HIGH LATITUDE LOWER THE RMOSPHERIC STRUCTURE
04/28/1995 – 04/30/1997 FY97: $0 Total: $45,200
Prin. Invest.: G CROWLEY
Tech. Officer: HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4443 JOHNS HOPKINS UNIVERSITY **5127**
THE STRUCTURE OF ACTIVE GALACTIC NUCLEI
05/10/1995 – 04/30/1997 FY97: $0 Total: $72,500
Prin. Invest.: G A KRISS
Tech. Officer: HQ/G R RIEGLER
CASE Category: 13 – PHYSICS

NAGW 4457 JOHNS HOPKINS UNIVERSITY **5128**
PRODUCTION OF NITRIC OXIDE IN THE THERMOSPHERE
05/04/1995 – 12/31/1996 FY97: $0 Total: $50,000
Prin. Invest.: D E ANDERSON
Tech. Officer: HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4547 JOHNS HOPKINS UNIVERSITY **5129**
A COMPACT PARTICLE DETECTOR
06/27/1995 – 06/30/1998 FY97: $110,800 Total: $217,200
Prin. Invest.: R MCNUTT, JR.
Tech. Officer: HQ/T KOSTIUK
CASE Category: 13 – PHYSICS

NAGW 4603 JOHNS HOPKINS UNIVERSITY **5130**
GLOBAL HELIOSPHERIC STRUCTURE AND DYNAMICS
07/12/1995 – 09/30/1997 FY97: $0 Total: $50,000
Prin. Invest.: R L MCNUTT
Tech. Officer: HQ/W V JONES, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4660 JOHNS HOPKINS UNIVERSITY **5131**
COUPLING BETWEEN THE SUN AND TERRESTRIAL THERMOSPH ERIC NEUTRAL WINDS
07/28/1995 – 12/31/1997 FY97: $0 Total: $69,000
Prin. Invest.: L GOEMBEL
Tech. Officer: HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4716 JOHNS HOPKINS UNIVERSITY **5132**
OCCULTATION STAR CATALOG IMPROVEMENT USING HIPPARC OS DATA
09/07/1995 – 06/30/1998 FY97: $0 Total: $34,135
Prin. Invest.: D W DUNHAM
Tech. Officer: HQ/R A STACHNIK
CASE Category: 11 – ASTRONOMY

NAGW 4718 JOHNS HOPKINS UNIVERSITY **5133**
MULTI–INSTRUMENT STUDIES OF IONOSPHERIC ELECTRIC F IELDS, CURRENTS, AND CONDUCTIVITIES
08/28/1995 – 09/30/1996 FY97: $0 Total: $37,000
Prin. Invest.: K B BAKER
Tech. Officer: HQ/M M MELLOTT
CASE Category: 13 – PHYSICS

NAGW 4729 JOHNS HOPKINS UNIVERSITY **5134**
ANALYSIS OF ENERGETIC NEUTRAL ATOM IMAGES FOR THE SWEDISH MICROSATELLITE ASTRID–1
09/12/1995 – 08/31/1997 FY97: $0 Total: $102,700
Prin. Invest.: F C ROELOF
Tech. Officer: HQ/R A HOFFMAN, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4745 JOHNS HOPKINS UNIVERSITY **5135**
COOPERATIVE ANALYSIS OF THE CPFM DATA FROM THE ASH OE IMAESA FIELD CAMPAIGN
09/22/1995 – 04/30/1997 FY97: $0 Total: $222,500
Prin. Invest.: S A LLOYD
Tech. Officer: HQ/M J KURYLO, HQ/D B PETERSON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4882 JOHNS HOPKINS UNIVERSITY **5136**
WINDOWLESS FUV LAMPS
12/05/1995 – 12/31/1998 FY97: $0 Total: $40,000
Prin. Invest.: S R MCCANDISS
Tech. Officer: HQ/L TAFF, HQ/D W WEEDMAN
CASE Category: 13 – PHYSICS

NAGW 4901 JOHNS HOPKINS UNIVERSITY **5137**
VOYAGER INSTELLAR MISSION: LECP INVESTIGATION
01/30/1996 – 04/30/1997 FY97: $0 Total: $510,000
Prin. Invest.: S M KRIMIGIS
Tech. Officer: HQ/J WILLETT
CASE Category: 13 – PHYSICS

NAGW 4902 JOHNS HOPKINS UNIVERSITY **5138**
SCIENCE DATA CENTER, FREJA PROJECT
01/26/1996 – 01/31/1998 FY97: $0 Total: $100,000
Prin. Invest.: L J ZANETTI
Tech. Officer: HQ/J WILLETT
CASE Category: 13 – PHYSICS

NAGW 4913 JOHNS HOPKINS UNIVERSITY **5139**
PLACING VARIOUS MAGNETOSPERIC PHYSICS DATA SETS ON-LINE
02/01/1996 – 09/30/1996 FY97: $0 Total: $9,000
Prin. Invest.: D G SIBECK
Tech. Officer: HQ/J WILLETT
CASE Category: 13 – PHYSICS

NAGW 4929 JOHNS HOPKINS UNIVERSITY **5140**
SECOND IAA INTERNATIONAL CONFERENCE ON LOW COST PL ANETARY MISSIONS
02/08/1996 – 01/31/1997 FY97: $0 Total: $30,000
Prin. Invest.: S M KRIMIGIS
Tech. Officer: HQ/J BERGSTRALH, HQ/H BRINTON
CASE Category: 13 – PHYSICS

NAGW 4979 JOHNS HOPKINS UNIVERSITY **5141**
AN INVESTIGATION OF RADIATIVE-DYNAMICAL COUPLING I N THE JOVIAN ATMOSPHERE
03/01/1996 – 12/15/1997 FY97: $0 Total: $93,000
Prin. Invest.: J F APPLEBY
Tech. Officer: HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 5054 JOHNS HOPKINS UNIVERSITY **5142**
GLOBAL ATOMIC OXYGEN DISTRIBUTION IN THE MESOSPHER E AND LOWER THERMOSPHERE
05/23/1996 – 05/31/1997 FY97: $0 Total: $71,500
Prin. Invest.: J YEE
Tech. Officer: HQ/M M MELLOTT, HQ/G L WITHBROE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5058 JOHNS HOPKINS UNIVERSITY **5143**
LOW LATITUDE CURRENT SYSTEMS DETERMINED FROM SATEL LITE MAGNETIC FIELD OBSERVATIONS
05/16/1996 – 05/31/1997 FY97: $0 Total: $59,400
Prin. Invest.: J B GARY
Tech. Officer: HQ/M M MELLOT, HQ/G L WITHBROE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 5093 JOHNS HOPKINS UNIVERSITY **5144**
REFLECTRON TIMNE OF FLIGHT MASS SPECTROMETER INSTR UMENTATION
06/28/1996 – 09/30/1997 FY97: $0 Total: $154,000
Prin. Invest.: R W MCENTIRE
Tech. Officer: HQ/T KOSTIUK, HQ/H C BRINTON
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5105 JOHNS HOPKINS UNIVERSITY **5145**
MINIATURIZED MODULAR IMAGING SYSTEM
06/10/1996 – 09/30/1997 FY97: $0 Total: $109,800
Prin. Invest.: R E GOLD
Tech. Officer: HQ/T KOSTIUK, HQ/H C BRINTON
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5128 JOHNS HOPKINS UNIVERSITY **5146**
CRITICAL COMPARISON OF SUBSTORM TRIGGER MODELS AGA INST OBSERVATIONS IN THE NEAR-EARTH TAIL
08/05/1996 – 04/14/1997 FY97: $0 Total: $62,900
Prin. Invest.: S OHTANI
Tech. Officer: HQ/J D BOHLIN, HQ/G L WITHBROE
CASE Category: 11 – ASTRONOMY

NAGW 5139 JOHNS HOPKINS UNIVERSITY **5147**
SOLAR ACTIVITY RESEARCH WITH THE FLARE GENESIS TEL ESCOPE
07/18/1996 – 05/31/1997 FY97: $0 Total: $280,000
Prin. Invest.: D M RUST
Tech. Officer: HQ/W J WAGNER, HQ/G L WITHBROE
CASE Category: 11 – ASTRONOMY

NAGW 5234 JOHNS HOPKINS UNIVERSITY **5148**
CORRELATIONS BETWEEN THE COMET SL9 FRAGMENTS AND T HEIR JOVIAN IMAPCT PHENOMENA
09/30/1996 – 05/31/1997 FY97: $0 Total: $24,124
Prin. Invest.: H A WEAVER
Tech. Officer: HQ/E BARKER, HQ/H C BRINTON
CASE Category: 13 – PHYSICS

NAS 5 27000 JOHNS HOPKINS UNIVERSITY **5149**
DEVELOPMENT PHASE OF THE HOPKINS ULTRAVIOLET TELESCOPE
09/21/1981 – 09/30/1998 FY97: $306,754 Total: $34,089,575
Prin. Invest.: A F DAVIDSEN
Tech. Officer: MSFC/J H OWENS
CASE Category: 11 – ASTRONOMY

NAS 5 30403 JOHNS HOPKINS UNIVERSITY **5150**
SPACE TELESCOPE IMAGING SPECTROGRAPH PROGRAM SUPPORT
02/04/1988 – 09/30/2001 FY97: $334,000 Total: $1,385,927
Prin. Invest.: W MOOS
Tech. Officer: GSFC/D VITABLANO
CASE Category: 41 – AERONAUTICAL ENGNR

NAS 5 31373 JOHNS HOPKINS UNIVERSITY **5151**
EOS INVESTIGATION
12/13/1991 – 12/14/2001 FY97: $0 Total: $385,000
Prin. Invest.: J SALISBURY
Tech. Officer: GSFC/H BLODGET
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 32865 JOHNS HOPKINS UNIVERSITY **5152**
DESIGN & DEVELOPMENT OF ADVANCED CAMERA SCIENCE
08/25/1995 – 12/31/1999 FY97: $482,624 Total: $1,506,524
Prin. Invest.: D FORD, D I ILLINGWORTH
Tech. Officer: GSFC/C KREBS
CASE Category: 42 – ASTRONAUTICAL ENGR

NAS 5 32914 JOHNS HOPKINS UNIVERSITY **5153**
SCHMIDT PLATE ASTROMETRY & THE SUBPLATE OVERLAP CODE
06/19/1995 – 06/18/1997 FY97: $0 Total: $68,210
Prin. Invest.: L TAFF
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAS 5 32985 JOHNS HOPKINS UNIVERSITY **5154**
PHASE C/D DESIGN AND DEVELOPMENT OF THE FAR ULTRA- VOILET SPECTROSCOPIC EXPLORER (FUSE) MISSION
11/22/1995 – 02/10/1999 FY97: $28,994,049 Total: $80,418,049
Prin. Invest.: H W MOOS
Tech. Officer: GSFC/D R MENGERS
CASE Category: 11 – ASTRONOMY

NAS 5 97179 JOHNS HOPKINS UNIVERSITY **5155**
TIMED PHASE C/D LETTER CONTRACT
06/16/1997 – 12/13/1997 FY97: $11,705,900 Total: $11,705,900
Prin. Invest.: J YEE
Tech. Officer: GSFC/J J WOLFF
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 5081 JOHNS HOPKINS UNIVERSITY **5156**
VESTIBULAR–NERVE INPUTS TO LINEAR VESTIBULO–OCULAR REFLEXES
07/15/1994 – 07/15/1997 FY97: $0 Total: $80,000
Prin. Invest.: L B MINOR
Tech. Officer: ARC/D L TOMKO
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 5 124 JOHNS HOPKINS UNIVERSITY **5157**
STUDY ON VARIOUS DIE COATING MATERIALS FOR THE COB ASSEMBLY
09/25/1995 – 09/30/1996 FY97: $0 Total: $39,866
Prin. Invest.: B LE
Tech. Officer: GSFC/M GARRISON, GSFC/R SAVAGE
CASE Category: 49 – ENGINEERING, OTHER

NCC 5 147 JOHNS HOPKINS UNIVERSITY **5158**
GRAND CHALLENGE RESEARCH
08/16/1996 – 08/16/1999 FY97: $350,000 Total: $810,000
Prin. Invest.: P OLSON
Tech. Officer: GSFC/J R FISCHER
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NGT 30209 JOHNS HOPKINS UNIVERSITY **5159**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/26/1993 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: G FEELEY–HARNIK
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30356 JOHNS HOPKINS UNIVERSITY **5160**
GLOBAL CHANGE FELLOWSHIP PROGRAM
09/04/1996 – 08/31/1997 FY97: $0 Total: $22,000
Prin. Invest.: M B PARLANGE
Tech. Officer: HQ/M Y WEI, HQ/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 40004 JOHNS HOPKINS UNIVERSITY **5161**
NATIONAL SPACE GRANT COLLEGE
10/04/1989 – 06/30/1997 FY97: $0 Total: $2,593,157
Prin. Invest.: R C HENRY
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51134 JOHNS HOPKINS UNIVERSITY **5162**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/19/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: W M SALTZMAN
Tech. Officer: HQ/G LASANE
CASE Category: 43 – CHEMICAL ENGR

NGT 51413 JOHNS HOPKINS UNIVERSITY **5163**
GSRP
08/29/1995 – 08/31/1997 FY97: $22,000 Total: $44,000
Prin. Invest.: D SALTZMAN
Tech. Officer: HQ/D GLASCO
CASE Category: 43 – CHEMICAL ENGR

NGT 51661 JOHNS HOPKINS UNIVERSITY **5164**
GRAD STUDENT RESEARCH PROGRAM
08/15/1996 – 08/31/1997 FY97: $0 Total: $22,000
Prin. Invest.: A SZALAY
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51687 JOHNS HOPKINS UNIVERSITY **5165**
GRAD STUD RES PROG
08/13/1996 – 09/01/1996 FY97: –$22,000 Total: $0
Prin. Invest.: M SALTZMAN
Tech. Officer: HQ/G LESANE
CASE Category: 43 – CHEMICAL ENGR

NGT 5 40029 JOHNS HOPKINS UNIVERSITY **5166**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA
01/24/1997 – 01/31/1998 FY97: $345,000 Total: $345,000
Prin. Invest.: R C HENRY
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40049 JOHNS HOPKINS UNIVERSITY **5167**
GLOBE–SPACE GRANT CONSORTIUM WORKSHOP
02/07/1997 – 12/14/1996 FY97: $19,340 Total: $19,340
Prin. Invest.: R C HENRY
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 2375 MORGAN STATE UNIVERSITY **5168**
RESEARCH ON HIGH T SUPERCONDUCTING COMPOUNDS
09/29/1993 – 03/31/1996 FY97: $0 Total: $226,150
Prin. Invest.: F W OLIVER
Tech. Officer: GSFC/W SULLIVAN
CASE Category: 13 – PHYSICS

NAG 5 2408 MORGAN STATE UNIVERSITY **5169**
MAINTENANCE AND TRAINING SUPPORT FOR THE ETA–10 SU PERCOM-PUTER (A COMPENENT OF THE MU–SPINPROGRAM)
10/25/1993 – 10/31/1996 FY97: $0 Total: $748,624
Prin. Invest.: W LUPTON
Tech. Officer: GSFC/J BENNETT
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 5 2945 MORGAN STATE UNIVERSITY **5170**
THE ENGINEERING ENRICHMENT PROGRAM
06/08/1995 – 06/14/1997 FY97: $118,955 Total: $238,955
Prin. Invest.: C WHITE
Tech. Officer: GSFC/D MENCHAN
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 3508 MORGAN STATE UNIVERSITY **5171**
FORGING A PARTNERSHIP: A TWENTY–FIRST CENTURY APPR OACH TO THE INVESTIGATION OF SCIENTIFIC. . . .
10/31/1996 – 11/14/1997 FY97: $850,274 Total: $850,274
Prin. Invest.: E DELOATCH
Tech. Officer: GSFC/C SOFFEN
CASE Category: 11 – ASTRONOMY

NAG 5 4401 MORGAN STATE UNIVERSITY **5172**
MODELING AND CHANGE POINT DETECTION IN MODIS ENGIN
04/18/1997 – 04/30/1998 FY97: $30,000 Total: $30,000
Prin. Invest.: J SMID
Tech. Officer: GSFC/B GUENTHER
CASE Category: 21 – MATHEMATICS

NCC 5 122 MORGAN STATE UNIVERSITY **5173**
MORGAN NETWORK RESOURCE TRAINING SITE
08/15/1995 – 08/14/1997 FY97: $600,000 Total: $1,699,523
Prin. Invest.: W LUPTON
Tech. Officer: GSFC/J BENNETT
CASE Category: 22 – COMPUTER SCIENCE

NCC 5 127 MORGAN STATE UNIVERSITY **5174**
TRENDING ANALYSIS AND CLASSIFICATION OF SIGNALS FOR AEROSPACE APPLICATION
12/12/1995 – 12/31/1996 FY97: $0 Total: $10,000
Prin. Invest.: J SMID
Tech. Officer: GSFC/W F TRUSZKOWSKI
CASE Category: 22 – COMPUTER SCIENCE

NCC 5 199 MORGAN STATE UNIVERSITY **5175**
LABORATORY STUDY OF THE BEHAVIOR OF SATURATED SEDI
06/10/1997 – 05/31/1998 FY97: $181,372 Total: $181,372
Prin. Invest.: D C HELM
Tech. Officer: GSFC/B G BILLS
CASE Category: 44 – CIVIL ENGR

NCC 5 204 MORGAN STATE UNIVERSITY **5176**
THE MAGNETIC, TRANSPORT AND STRUCTURAL PROPERTIES TED MAGNETIC OXIDE FILMS
06/11/1997 – 05/31/1998 FY97: $109,588 Total: $109,588
Prin. Invest.: C WILLIAMS
Tech. Officer: GSFC/J S CHITWOOD
CASE Category: 13 – PHYSICS

NGT 90117 MORGAN STATE UNIVERSITY **5177**
NGT–90117/MORGAN STATE UNIV/UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
09/24/1992 – 08/14/1996 FY97: $0 Total: $60,000
Prin. Invest.: E DELOATCH, NONE
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90236 MORGAN STATE UNIVERSITY **5178**
GRADUATE TRAINING IN IMAGE PROCESSING
10/27/1993 – 02/25/1998 FY97: $0 Total: $345,000
Prin. Invest.: E C HAMMOND JR.
Tech. Officer: GSFC/G R BAKER, GSFC/S STOVALL–ALEXANDER
CASE Category: 22 – COMPUTER SCIENCE

NGT 5 90007 MORGAN STATE UNIVERSITY **5179**
USRP
12/30/1996 – 08/14/1997 FY97: $12,000 Total: $12,000
Prin. Invest.: E DELOATCH
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 46 – MECHANICAL ENGR

NGT 5 90053 MORGAN STATE UNIVERSITY **5180**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
02/20/1997 – 08/14/1997 FY97: $132,000 Total: $132,000
Prin. Invest.: E DELOATCH
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 44 – CIVIL ENGR

NGT 90158 PRINCE GEORGE'S COMMUNITY COLLEGE **5181**
PGCC–NASA COLLEGIATE PROGRAM
05/13/1993 – 10/31/1995 FY97: $0 Total: $234,592
Prin. Invest.: P A CUNNIFF
Tech. Officer: GSFC/D MENCHAN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 992 SALISBURY STATE UNIVERSITY **5182**
JOVE
12/01/1993 – 05/31/1997 FY97: $0 Total: $107,000
Prin. Invest.: J L TYROLL, A PICA, S HETZLER
Tech. Officer: MSFC/F SIX
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 2 941 TOWSON STATE UNIVERSITY **5183**
THE GALACTIC INTERSTELLAR MEDIUM: THERMAL PROCESS & FAR-INFARED LINE EMISSION
03/14/1996 – 12/31/1996 FY97: $0 Total: $4,000
Prin. Invest.: E L LOH, NONE
Tech. Officer: ARC/D J HOLLENBACH
CASE Category: 11 – ASTRONOMY

NAG 2 1094 UNIV OF MARYLAND AT BALTIMORE **5184**
SCALABLE BENCHMARKS FOR MASS STORAGE SYSTEMS
12/06/1996 – 12/31/1997 FY97: $94,995 Total: $94,995
Prin. Invest.: E L MILLER
Tech. Officer: ARC/J R LEKASHMAN, ARC/S F WALWORTH
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 3907 UNIV OF MARYLAND AT BALTIMORE **5185**
LABORATORY QUANITATIVE SPECTROSCOPY OF MODELS OF A
02/11/1997 – 02/14/1998 FY97: $71,096 Total: $71,096
Prin. Invest.: D SIROTA
Tech. Officer: GSFC/M J KURYLO
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4254 UNIV OF MARYLAND AT BALTIMORE **5186**
RESEARCH DEVELOPMENT OF A HIGH PERFORMANCE BALTIMO SPATIAL DATABASE CALIBRATION TESTBED DIRECTED TOW
04/01/1997 – 03/31/1999 FY97: $297,865 Total: $297,865
Prin. Invest.: D W FORESMAN
Tech. Officer: GSFC/N MAYNARD
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 6093 UNIV OF MARYLAND AT BALTIMORE **5187**
EFFECTS OF EXPOSURE TO HEAVY PARTICLES
09/05/1997 – 05/15/1998 FY97: $26,511 Total: $26,511
Prin. Invest.: B RABIN
Tech. Officer: HQ/L CHAMBERS
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 2649 UNIV OF MARYLAND AT BALTIMORE **5188**
MATHEMATICAL BIOLOGY FOR SUPPORT OF CLINICAL DECISIONS
09/03/1991 – 06/30/1996 FY97: –$130,965 Total: $495,473
Prin. Invest.: W P COLEMAN
Tech. Officer: HQ/R J WHITE
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 5040 UNIV OF MARYLAND AT BALTIMORE **5189**
RESEARCH & DEVELOPMENT OF HIGH PERFORMANCE BALTIMO RE–WASHINGTON REGIONAL SPATIAL DATABASE CALIBRATI
04/22/1996 – 06/30/1997 FY97: $0 Total: $153,906
Prin. Invest.: T FORESMAN
Tech. Officer: HQ/N MAYNARD, HQ/R C HARRISS
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 5070 UNIV OF MARYLAND AT BALTIMORE **5190**
DEV. & SUPPORT OF IMPLEMENTATION PROG. FOR EOS POT ENTIAL USER COMMUNITY THROUGH REGIONAL
05/30/1996 – 09/30/1997 FY97: $0 Total: $150,000
Prin. Invest.: T W FORESMAN
Tech. Officer: HQ/A TUYAHOV
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 921 UNIV OF MARYLAND AT BALTIMORE **5191**
REMOTE DECISION–MAKING FOR TRAUMA PATIENT RESUSCIT ATION
08/28/1995 – 05/31/1998 FY97: $96,436 Total: $289,736
Prin. Invest.: C F MACKENZIE
Tech. Officer: ARC/J M ORASANU
CASE Category: 69 – PSYCHOLOGY, OTHER

NGT 5 53 UNIV OF MARYLAND AT BALTIMORE **5192**
PERFORMANCE ANALYSIS OF A HEAT DRIVEN PULSE PUMP
06/23/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: N T WRIGHT
Tech. Officer: GSFC/M S BURRELL
CASE Category: 46 – MECHANICAL ENGR

NAG 1 1089 UNIVERSITY OF MARYLAND – COLLEGE PARK **5193**
APPLICATION OF LARGE EDDY SIMULATIONS TO TRANSI TIONAL CHAN-NEL FLOWS
01/18/1990 – 01/14/1996 FY97: $0 Total: $238,828
Prin. Invest.: U PIOMELLI
Tech. Officer: LARC/T A ZANG, LARC/A KUMAR
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1485 UNIVERSITY OF MARYLAND – COLLEGE PARK **5194**
SCALABLE RUNTIME SUPPORT FOR SPARSE AND ADDAPTIVE COMPUTA-TIONS
03/01/1993 – 02/28/1997 FY97: $0 Total: $1,429,001
Prin. Invest.: J H SALTZ
Tech. Officer: LARC/E J PRIOR, LARC/M D SALAS
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1540 UNIVERSITY OF MARYLAND – COLLEGE PARK **5195**
DYNAMICS AND CONTROL OF SUPERSONIC/HYPERSONIC VECHLES — A MULTIDISCIPLINARYSTUDY NLPN 93–410
08/24/1993 – 02/23/1997 FY97: –$1 Total: $180,000
Prin. Invest.: D K SCHMIDT, J D ANDERSON, M J LEWIS
Tech. Officer: LARC/L M GREGORY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1560 UNIVERSITY OF MARYLAND – COLLEGE PARK **5196**
ADAPTIVE DIRECT STIMULATION MONTE CARLO METHODS ON DIS-TRIBUTED MEMORY ARCHITECTURES AND WORKSTATION
01/05/1994 – 06/30/1996 FY97: –$1 Total: $33,351
Prin. Invest.: J SALTZ
Tech. Officer: LARC/R G WILMOTH, LARC/J N MOSS
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1655 UNIVERSITY OF MARYLAND – COLLEGE PARK **5197**
IMPROVED CFD TRANSONICS FOR ROTORCRAFT APPLICATION S
11/16/1994 – 09/30/1997 FY97: $42,820 Total: $102,596
Prin. Invest.: J D BAEDER
Tech. Officer: LARC/K S BRENTNER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1730 UNIVERSITY OF MARYLAND – COLLEGE PARK **5198**
IMPACT OF U.S. GOVERNMENT IN–HOUSE RESEARCH AND DE VELOP-MENT ON THE ADVANCEMENT OF AERODYNAMICS
06/05/1995 – 06/04/1998 FY97: $29,001 Total: $75,001
Prin. Invest.: J D ANDERSON
Tech. Officer: LARC/D M BUSHNELL, LARC/R V HARRIS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1796 UNIVERSITY OF MARYLAND – COLLEGE PARK **5199**
CENTER FOR HYPERSONIC EDUCATION AND RESEARCH
01/24/1996 – 08/31/1997 FY97: $140,001 Total: $340,001
Prin. Invest.: M J LEWIS
Tech. Officer: LARC/S MASSENBERG
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1828 UNIVERSITY OF MARYLAND – COLLEGE PARK **5200**
LARGE–EDDY SIMULATION OF RELAMINARIZATION AND RETRANSITION
04/11/1996 – 04/09/1998 FY97: $27,001 Total: $66,957
Prin. Invest.: U PIOMELI
Tech. Officer: LARC/C L STREETT, LARC/W L SELLERS, III
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1831 UNIVERSITY OF MARYLAND – COLLEGE PARK **5201**
NEXT GENERATION ALGORITHMS FOR SHORTWAVE RADIATION BUDGETS AND CLIMATE RESEARCH
04/30/1996 – 06/30/1998 FY97: $99,000 Total: $192,876
Prin. Invest.: R T PINKER
Tech. Officer: LARC/A B CARLSON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1832 UNIVERSITY OF MARYLAND – COLLEGE PARK **5202**
DEVELOPMENT OF CORRECTIONS FOR BIOMASS BURNING EFFECTS IN VERSION TWO OF GEWEX SRB ALGORITHM
04/30/1996 – 04/30/1998 FY97: $86,933 Total: $170,703
Prin. Invest.: R T PINKER
Tech. Officer: LARC/A B CARLSON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1880 UNIVERSITY OF MARYLAND – COLLEGE PARK **5203**
LARGE EDDY SIMULATION OF THE SOUND EMISSION FROM UNSTEADY FLOW SEPARATION
11/25/1996 – 08/31/1997 FY97: $50,000 Total: $50,000
Prin. Invest.: U PIOMELLI
Tech. Officer: LARC/M G MACARAEG
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1882 UNIVERSITY OF MARYLAND – COLLEGE PARK **5204**
LARGE EDDY SIMULATION OF ATTACHMENT–LINE INSTABILITY
11/26/1996 – 11/30/1997 FY97: $55,555 Total: $55,555
Prin. Invest.: U PIOMELLI
Tech. Officer: LARC/R D JOSLIN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1897 UNIVERSITY OF MARYLAND – COLLEGE PARK **5205**
INVESTIGATION OF TROPICAL TROPOSPHERIC WATER VAPOR MY 1/3
02/13/1997 – 02/12/1998 FY97: $55,000 Total: $55,000
Prin. Invest.: A E DESSLER
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 557 UNIVERSITY OF MARYLAND – COLLEGE PARK **5206**
HIGH RESOLUTION FAR–INFRARED STUDIES OF COMPACT RE GIONS OF STAR–FORMING MOLECULAR CLOUDS
01/15/1989 – 10/31/1996 FY97: $0 Total: $153,304
Prin. Invest.: L G MUNDY
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 627 UNIVERSITY OF MARYLAND – COLLEGE PARK **5207**
"PIONEER 10/11 DATA ANALYSIS AND INTERPRETATION"
03/15/1990 – 12/31/1997 FY97: $220,000 Total: $2,335,721
Prin. Invest.: F B MCDONALD
Tech. Officer: ARC/L E LASHER, ARC/R O FIMMEL
CASE Category: 11 – ASTRONOMY

NAG 2 787 UNIVERSITY OF MARYLAND – COLLEGE PARK **5208**
EVOLUTION & GRAVITY RECEPTORS IN THE EAR
05/27/1992 – 04/30/1996 FY97: –$3,295 Total: $146,704
Prin. Invest.: A N POPPER
Tech. Officer: ARC/M L CORCORAN, ARC/C E WADE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 889 UNIVERSITY OF MARYLAND – COLLEGE PARK **5209**
HELICOPTER VIBRATION REDUCTION WITH DYNAMICALLY TU NED BLADE PITCH LINKS
03/24/1994 – 02/28/1997 FY97: $0 Total: $80,000
Prin. Invest.: I CHOPRA
Tech. Officer: ARC/S R KOTTAPALLI
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 1025 UNIVERSITY OF MARYLAND – COLLEGE PARK **5210**
PROPOSAL FOR ...– TEST OF GIRCORCODE
01/18/1996 – 04/14/1997 FY97: $0 Total: $50,000
Prin. Invest.: W S LEVINE
Tech. Officer: ARC/M B TISCHLER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 1045 UNIVERSITY OF MARYLAND – COLLEGE PARK **5211**
SOFIA SCIENCE WORKING GROUP
05/01/1996 – 12/31/1996 FY97: $0 Total: $7,770
Prin. Invest.: L G MUNDY
Tech. Officer: ARC/E F ERICKSON
CASE Category: 11 – ASTRONOMY

NAG 2 1060 UNIVERSITY OF MARYLAND – COLLEGE PARK **5212**
HIGH RESOLUTION FAR–INFRARED STUDIES OF COMPACT RE GIONS OF STAR–FORMING MOLECULAR CLOUDS
07/01/1996 – 12/31/1996 FY97: $0 Total: $5,000
Prin. Invest.: L G MUNDY
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 1122 UNIVERSITY OF MARYLAND – COLLEGE PARK **5213**
PROPOSAL FOR FURTHER DEVELOPMENT, SUPPORT, AND ENH ANCE-MENT OF CONDUIT
03/17/1997 – 01/14/1998 FY97: $60,013 Total: $60,013
Prin. Invest.: W S LEVINE
Tech. Officer: ARC/M B TISCHLER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1395 UNIVERSITY OF MARYLAND – COLLEGE PARK **5214**
CRITICAL DYNAMICS OF FLUIDS
12/21/1992 – 12/14/1996 FY97: $9,660 Total: $596,779
Prin. Invest.: R A FERRELL
Tech. Officer: LERC/R A WILKINSON
CASE Category: 13 – PHYSICS

NAG 3 1488 UNIVERSITY OF MARYLAND – COLLEGE PARK **5215**
PRIMARY ZONE FUEL–AIR MIXING STUDIES FOR LOW NOX A DVANCED SUBSONIC COMBUSTOR DEVELOPMENT
04/29/1993 – 10/31/1997 FY97: $56,587 Total: $260,996
Prin. Invest.: A K GUPTA, H L RUSSELL
Tech. Officer: LERC/T M SANDERS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1717 UNIVERSITY OF MARYLAND – COLLEGE PARK **5216**
INTEGRATED FLIGHT/PROPULSION CONTROL OF HIGH – PER FORMANCE AIRCRAFT
02/09/1995 – 03/08/1997 FY97: $0 Total: $58,090
Prin. Invest.: D K SCHMIDT
Tech. Officer: LERC/S GARG
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1867 UNIVERSITY OF MARYLAND – COLLEGE PARK **5217**
CRITICAL SYNAMICS FOR AMBIENT TEMPERATURE AND LOW TEMPERA-TURE PHASE TRANSITIONS
05/09/1996 – 05/08/2000 FY97: $58,000 Total: $158,000
Prin. Invest.: R A FERRELL
Tech. Officer: LERC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 3 1950 UNIVERSITY OF MARYLAND – COLLEGE PARK **5218**
SPEED IMPROVEMENTS IN THE UNIVERSITY OF MD OPEN CO RE COM-POSITE FLYWHEEL
08/13/1996 – 08/14/1998 FY97: $100,000 Total: $150,545
Prin. Invest.: J A KIRK, D K ANAND
Tech. Officer: LERC/R F BEACH, LERC/B A KAMFMAN
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1960 UNIVERSITY OF MARYLAND – COLLEGE PARK **5219**
DIFFUSION FLAME STRUCTURE, SHAPE, EXTINCTION, GEOM ETRICAL CONSIDERATION
09/04/1996 – 05/30/1998 FY97: $52,678 Total: $97,896
Prin. Invest.: J L TORERO
Tech. Officer: LERC/D P STOCKER, LERC/H D ROSS
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1961 UNIVERSITY OF MARYLAND – COLLEGE PARK **5220**
FLAMMABILITY DIAGRAMS OF COMBUSTIBLE MATERIALS IN MICROGRAVITY
09/04/1996 – 05/31/2000 FY97: $0 Total: $60,359
Prin. Invest.: J QUINTIERE
Tech. Officer: LERC/H ROSS
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 5 705 UNIVERSITY OF MARYLAND – COLLEGE PARK **5221**
RESEARCH RELATIVE TO MP ION AND ELELCTRON EXPERIMENT
10/01/1985 – 11/30/1997 FY97: $0 Total: $716,445
Prin. Invest.: G GLOECKLER, A B GALVIN, G M MASON
Tech. Officer: GSFC/G BULLOCK
CASE Category: 11 – ASTRONOMY

NAG 5 867 UNIVERSITY OF MARYLAND – COLLEGE PARK **5222**
REMOTE SENSING OF THE ATMOSPHERE, TWO–LEVEL ANALYSIS—THE AFRICAN DROUGHT
01/01/1987 – 01/31/1998 FY97: $0 Total: $884,198
Prin. Invest.: F E BAER, Y MINTZ
Tech. Officer: GSFC/J R BATES
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 914 UNIVERSITY OF MARYLAND – COLLEGE PARK **5223**
MESOSCALE SURFACE RADIATION BUDGETS FROM SATELLITE OBSERVATIOONNS: DERIVATIOONN AND VALIDATION
07/01/1987 – 10/31/1996 FY97: $0 Total: $944,482
Prin. Invest.: R T PINKER
Tech. Officer: GSFC/M D CHOU
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 1101 UNIVERSITY OF MARYLAND – COLLEGE PARK **5224**
COMPREHENSIVE THEORETICAL & COMPUTATIONAL MODELING PROGRAM
12/01/1988 – 04/30/1998 FY97: $597,850 Total: $4,289,801
Prin. Invest.: K PAPADOPOULOS
Tech. Officer: GSFC/S A CURTIS, GSFC/M H ACUNA
CASE Category: 13 – PHYSICS

NAG 5 1129 UNIVERSITY OF MARYLAND – COLLEGE PARK **5225**
CLUSTER & CORONAL MASS EJECTIONS
04/15/1989 – 09/14/1997 FY97: $0 Total: $362,895
Prin. Invest.: M A COPLAN
Tech. Officer: GSFC/K W OGILVIE
CASE Category: 13 – PHYSICS

NAG 5 1134 UNIVERSITY OF MARYLAND – COLLEGE PARK **5226**
SPACE SCIENCES RESEARCH
07/01/1989 – 09/30/1995 FY97: $0 Total: $1,430,301
Prin. Invest.: J D TRASCO, R A BELL
Tech. Officer: GSFC/T KOSTIUK
CASE Category: 11 – ASTRONOMY

NAG 5 1356 UNIVERSITY OF MARYLAND – COLLEGE PARK **5227**
THEORETICAL STUDY OF 3–DIMENSIONAL RECONNECTIONS
04/10/1990 – 05/31/1996 FY97: $0 Total: $173,750
Prin. Invest.: J M FINN
Tech. Officer: GSFC/D S SPICER, GSFC/M L GOLDSTEIN
CASE Category: 13 – PHYSICS

NAG 5 1696 UNIVERSITY OF MARYLAND – COLLEGE PARK **5228**
PARTICIPATION IN TOMS MISSION
07/15/1991 – 08/31/1997 FY97: $0 Total: $562,838
Prin. Invest.: R D HUDSON
Tech. Officer: GSFC/J R HERMAN, GSFC/R D MCPETERS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 1782 UNIVERSITY OF MARYLAND – COLLEGE PARK **5229**
ATMOSPHERE LIDAR: METEROLOGICAL OBSERVATIONS & NEW INSTRUMENT CONCEPTS
09/10/1991 – 03/31/1997 FY97: $0 Total: $90,793
Prin. Invest.: T D WILKERSON
Tech. Officer: GSFC/G K SCHWEMMER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 1835 UNIVERSITY OF MARYLAND – COLLEGE PARK **5230**
CLIMATE MODEL CALCULATIONS OF THE EFFECTS OF VOLCA NOES ON GLOBAL CLIMATE
11/27/1991 – 11/30/1996 FY97: $0 Total: $442,200
Prin. Invest.: A ROBUCK, K E TAYLOR
Tech. Officer: GSFC/L S WALTER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 1966 UNIVERSITY OF MARYLAND – COLLEGE PARK **5231**
PHOTOFRAGMENT SPECTROSCOPY OF HIGHLY CHARGED MOLEC ULAR IONS
04/03/1992 – 04/30/1996 FY97: $0 Total: $55,676
Prin. Invest.: J WEINER
Tech. Officer: GSFC/J W KELLER
CASE Category: 12 – CHEMISTRY

NAG 5 2001 UNIVERSITY OF MARYLAND – COLLEGE PARK **5232**
SOLAR FLARE PHYSICS
07/01/1992 – 12/31/1997 FY97: $83,006 Total: $578,234
Prin. Invest.: M R KUNDU, E J SCHMAHL, M J ASCHWANDER
Tech. Officer: GSFC/C J CRANNELL
CASE Category: 11 – ASTRONOMY

NAG 5 2117 UNIVERSITY OF MARYLAND – COLLEGE PARK **5233**
BIOPHYSICAL MODELS AND SATELLITE DATA: FURTHER AN ALYSIS OF THE FIFE RESULTS AT THE UNIV OF MARYLAN
10/09/1992 – 12/31/1996 FY97: $0 Total: $335,740
Prin. Invest.: R D HUDSON
Tech. Officer: GSFC/F HALL, GSFC/P SELLERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2293 UNIVERSITY OF MARYLAND – COLLEGE PARK **5234**
BIOSPHERIC DYNAMICS IN THE BOREAL FOREST ECOTONE
06/17/1993 – 06/30/1997 FY97: $0 Total: $270,000
Prin. Invest.: S N GOWARD
Tech. Officer: GSFC/F G HALL, GSFC/P SELLERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2296 UNIVERSITY OF MARYLAND – COLLEGE PARK **5235**
TRANSIENT 511 KEV EMISSION FROM 1E1740.7–2942 AND SOURCES NEAR THE GALACTIC CENTER
06/17/1993 – 08/31/1996 FY97: $0 Total: $65,000
Prin. Invest.: M LEVENTHAL
Tech. Officer: GSFC/J TUELLER
CASE Category: 11 – ASTRONOMY

NAG 5 2308 UNIVERSITY OF MARYLAND – COLLEGE PARK **5236**
BIOPHYSICAL SIGNIFICANCE OF SPECTRAL VEGETATION IN DICES IN THE BOREAL FOREST
07/14/1993 – 09/30/1997 FY97: $0 Total: $248,400
Prin. Invest.: C L WALTHALL
Tech. Officer: GSFC/F G HALL, GSFC/P SELLERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2339 UNIVERSITY OF MARYLAND – COLLEGE PARK **5237**
CO2 WATER FLUXES IN THE BOREAL FOREST OVERSTORY
07/27/1993 – 07/31/1997 FY97: $15,000 Total: $106,641
Prin. Invest.: J SULLIVAN
Tech. Officer: GSFC/E MIDDLETON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2359 UNIVERSITY OF MARYLAND – COLLEGE PARK **5238**
HIGH-SPEED MODULATION OF DIFFRACTION-LIMITED HIGH- POWER SEMICONDUCTOR LASERAMPLIFIER
09/09/1993 – 10/14/1996 FY97: $0 Total: $114,000
Prin. Invest.: M DAGENAIS
Tech. Officer: GSFC/D M CORNWALL, GSFC/M A KRAINAK
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 2364 UNIVERSITY OF MARYLAND – COLLEGE PARK **5239**
A SEARCH FOR ROTATIONAL MODULATION OF THE CORONAL/ TRANSITION REGION RADIATION FROM AB
09/09/1993 – 03/14/1997 FY97: $0 Total: $81,342
Prin. Invest.: S M WHITE
Tech. Officer: HQ/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 2370 UNIVERSITY OF MARYLAND – COLLEGE PARK **5240**
MODELING AND REMOTE SENSING OF RADIANT ENERGY INTE RACTION AND PHYSIOLOGICALFUNCTIONING IN A . . .
09/21/1993 – 12/31/1996 FY97: $55,000 Total: $286,564
Prin. Invest.: J TOWNSHEND, R MYNENI
Tech. Officer: GSFC/D WILLIAMS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2380 UNIVERSITY OF MARYLAND – COLLEGE PARK **5241**
SEARCH FOR GALACTIC GAMMA-RAY LINE EMISSION USING BATSE
09/29/1993 – 09/30/1997 FY97: $0 Total: $237,278
Prin. Invest.: M LEVENTHAL
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2386 UNIVERSITY OF MARYLAND – COLLEGE PARK **5242**
ANNIHILATION RADIATION FROM THE MILKY-WAY GALAXY
10/06/1993 – 09/30/1997 FY97: $0 Total: $20,000
Prin. Invest.: M LEVENTHAL
Tech. Officer: GSFC/N GAHRELS
CASE Category: 11 – ASTRONOMY

NAG 5 2396 UNIVERSITY OF MARYLAND – COLLEGE PARK **5243**
AVHRR PATHFINDER LAND DATA VALIDATION
10/15/1993 – 10/31/1996 FY97: $0 Total: $215,147
Prin. Invest.: J TOWNSHEND
Tech. Officer: GSFC/K J RANSON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2400 UNIVERSITY OF MARYLAND – COLLEGE PARK **5244**
ASTROPHYSICS CONFERENCE SUPPORT
10/13/1993 – 01/31/1998 FY97: $25,000 Total: $125,000
Prin. Invest.: J D TRASKO
Tech. Officer: GSFC/S S HOLT
CASE Category: 11 – ASTRONOMY

NAG 5 2482 UNIVERSITY OF MARYLAND – COLLEGE PARK **5245**
PARALLEL COMPUTATION FOR IRREGULAR DATA STRUCTURES AND PROBLEMS
02/08/1994 – 09/30/1996 FY97: $0 Total: $166,000
Prin. Invest.: L DAVIS
Tech. Officer: GSFC/J R FISCHER, GSFC/J E DORBAND
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2604 UNIVERSITY OF MARYLAND – COLLEGE PARK **5246**
THE STUDY OF TRANSPORT OF GALACTIC COSMIC RAYS
05/23/1994 – 05/31/1997 FY97: $6,436 Total: $83,936
Prin. Invest.: F MCDONALD
Tech. Officer: GSFC/R STREITMATTER
CASE Category: 11 – ASTRONOMY

NAG 5 2640 UNIVERSITY OF MARYLAND – COLLEGE PARK **5247**
A DEEP ROSAT HRI OBSERVATION OF NGC 1068
07/05/1994 – 01/14/1998 FY97: $0 Total: $45,000
Prin. Invest.: A WILCOX
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2648 UNIVERSITY OF MARYLAND – COLLEGE PARK **5248**
NASA SPACE COMMUNICATIONS INFRASTRUCTURE SYSTEM OF INFORMATION HANDLING ANDRESOURCES MANAGEMENT...
07/14/1994 – 07/14/1997 FY97: $207,795 Total: $1,499,635
Prin. Invest.: E E MILLER, AKIN
Tech. Officer: GSFC/D J HEI
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 2754 UNIVERSITY OF MARYLAND – COLLEGE PARK **5249**
PREPARATION OF FLIGHT OPERATIONS AND IWS INTERGRA- TION OF THE CELIAS EXPERIMENT ON THE SOHO SPACECR
10/18/1994 – 10/31/1997 FY97: $683,000 Total: $1,409,000
Prin. Invest.: F IPAVICH
Tech. Officer: GSFC/A POLAND
CASE Category: 11 – ASTRONOMY

NAG 5 2769 UNIVERSITY OF MARYLAND – COLLEGE PARK **5250**
THE INTERACTION OF SHOCKED STELLAR WINDS AND NEBULAR GAS: 1 X-RAY EMISSION FROM THE PLANETARY
10/26/1994 – 03/14/1996 FY97: $0 Total: $13,499
Prin. Invest.: J HARRINGTON
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2783 UNIVERSITY OF MARYLAND – COLLEGE PARK **5251**
THRESHOLDING COREGISTRATION, AND STOCHASTIC METHOD S OF VALIDATION OF RAINFALL ESTIMATES FROM SPACE
11/10/1994 – 11/14/1997 FY97: $105,000 Total: $285,000
Prin. Invest.: B KEDEM, D A SHORT
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2800 UNIVERSITY OF MARYLAND – COLLEGE PARK **5252**
RING CURRENT COMPOSITION AND DYNAMICS USING AMPTE/ CCE CHEM DATA
12/05/1994 – 12/14/1996 FY97: $0 Total: $105,000
Prin. Invest.: D C HAMILTON
Tech. Officer: GSFC/J GREEN
CASE Category: 13 – PHYSICS

NAG 5 2810 UNIVERSITY OF MARYLAND – COLLEGE PARK **5253**
THE SOLAR WIND AND SUPRATHERMAL ION COMPOSITION INVESTIGATION (SMS) ON THE WIND SPACECRAFT
12/12/1994 – 12/14/1997 FY97: $556,000 Total: $1,512,800
Prin. Invest.: G GLOECKLER
Tech. Officer: GSFC/K W OGILVIE
CASE Category: 19 – PHYSICALSCIENCE, OTHER

NAG 5 2856 UNIVERSITY OF MARYLAND – COLLEGE PARK **5254**
ANALYSES OF MULTISPECTRAL MULTIANGLE ASAS DATA ACQUIRED OVER BOREAL FOREST SITES
12/29/1994 – 01/14/1998 FY97: $121,402 Total: $226,230
Prin. Invest.: C A RUSSELL
Tech. Officer: GSFC/J IRONS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2865 UNIVERSITY OF MARYLAND – COLLEGE PARK **5255**
MISSION OPERATIONS AND DATA ANALYSIS FOR THE STEP SUBSYSTEM OF THE EPACT EXPERIMENT ON THE WIND . .
01/09/1995 – 01/14/1998 FY97: $146,700 Total: $554,992
Prin. Invest.: G M MASON, D C HAMILTON
Tech. Officer: GSFC/T T VON ROSENVINGE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 2885 UNIVERSITY OF MARYLAND – COLLEGE PARK **5256**
THE CONTRIBUTION OF ACTIVE STARS TO THE DIFFUSE GA LACTIC GAMMA-RAY BACKGROUND
02/07/1995 – 02/14/1998 FY97: $0 Total: $56,889
Prin. Invest.: S M WHITE
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2886 UNIVERSITY OF MARYLAND – COLLEGE PARK **5257**
THE DYNAMICS OF PROTOSTELLAR MASS OUTFLOWS
02/07/1995 – 02/14/1997 FY97: $0 Total: $69,000
Prin. Invest.: J M STONE
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2895 UNIVERSITY OF MARYLAND – COLLEGE PARK **5258**
DYNAMIC QUERIES INTERFACES FOR THE EOSDIS INFORMAT ION SYSTEM
02/17/1995 – 02/28/1998 FY97: $163,240 Total: $431,261
Prin. Invest.: B SHNEIDERMAN, C PLAISANE
Tech. Officer: GSFC/C A ROUFF
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2926 UNIVERSITY OF MARYLAND – COLLEGE PARK **5259**
MULTI-MISSION AND MULTISPECTRAL ASTROPHYSICS DATA CATALOG MANAGEMENT SYSTEM
04/03/1995 – 06/14/1998 FY97: $55,000 Total: $159,211
Prin. Invest.: N ROUSSOPOULOS
Tech. Officer: GSFC/C Y CHEUNG
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2963 UNIVERSITY OF MARYLAND – COLLEGE PARK **5260**
SOLAR CYCLE DYNAMICS OF SOLAR MAGNETOSPHERIC AND HELIOSPHERIC PARTICLES AND LONG-TERM ATMOSPHERIC..
06/09/1995 – 09/30/1997 FY97: $866,000 Total: $2,570,335
Prin. Invest.: G M MASON
Tech. Officer: GSFC/T T VON ROSENVINGE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 2986 UNIVERSITY OF MARYLAND – COLLEGE PARK **5261**
GLOBAL LAND COVER MEASUREMENTS FOR GLOBAL CHANGE RESEARCH
06/29/1995 – 01/14/1997 FY97: $0 Total: $109,621
Prin. Invest.: W LAWRENCE
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3028 UNIVERSITY OF MARYLAND – COLLEGE PARK **5262**
THE THEORETICAL PROPERTIES OF OLD STELLAR POPULA- TIONS
10/02/1995 – 10/14/1997 FY97: $88,692 Total: $168,293
Prin. Invest.: R A BELL
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3087 UNIVERSITY OF MARYLAND – COLLEGE PARK **5263**
PARTICIPATION IN ECS TIRECKICKING ACTIVITIES
10/11/1995 – 08/31/1997 FY97: $0 Total: $35,000
Prin. Invest.: D EL SALEOUS
Tech. Officer: GSFC/H RAMAPRIYAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3093 UNIVERSITY OF MARYLAND – COLLEGE PARK **5264**
GAMMA-RAY SPECTROSCOPY OF NEARBY OB ASSOCIATIONS OBSERVATIONS (NO COST TIME EXTENSION)
10/12/1995 – 04/14/1998 FY97: $0 Total: $16,746
Prin. Invest.: D DWEYER
Tech. Officer: GSFC/D NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3096 UNIVERSITY OF MARYLAND – COLLEGE PARK **5265**
LAND COVER MAPPING OF TEMPERATE ASIA USING 1KM AND 4KM AVHRR DATA
10/05/1995 – 10/14/1997 FY97: $15,000 Total: $40,000
Prin. Invest.: C O JUSTICE, J R TOWNSHEND
Tech. Officer: GSFC/C J TUCKER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3104 UNIVERSITY OF MARYLAND – COLLEGE PARK **5266**
INTEGRATION AND TESTS OF SUPERCONDUCTING ANGULAR ACCELEROMETERS WITH THE SUPERCONDUCTING GRAVITY...
10/17/1995 – 11/30/1997 FY97: $240,000 Total: $590,000
Prin. Invest.: H PAIK
Tech. Officer: GSFC/B G BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3116 UNIVERSITY OF MARYLAND – COLLEGE PARK **5267**
A SEARCH FOR HIGH ENERGY COMPONENT OF COSMIC GAMMA RAY BURST BY AVERAGING BATSE, COMPTEL, AND..
10/17/1995 – 10/31/1996 FY97: $0 Total: $20,000
Prin. Invest.: R Z SAGDEEV
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3117 UNIVERSITY OF MARYLAND – COLLEGE PARK **5268**
LIGHTNING GENERATED GAMMA RAY BURSTS
10/17/1995 – 10/31/1996 FY97: $0 Total: $15,000
Prin. Invest.: G M MILIKH
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3134 UNIVERSITY OF MARYLAND – COLLEGE PARK **5269**
IMGRASS RADIATION AND REMOTE SENSING PROGRAMS IN SUPPORT OF BSRN
01/23/1996 – 02/28/1998 FY97: $15,000 Total: $30,000
Prin. Invest.: D T PINKER
Tech. Officer: GSFC/D CHOW
CASE Category: 11 – ASTRONOMY

NAG 5 3172 UNIVERSITY OF MARYLAND – COLLEGE PARK **5270**
COMPARISON OF THE RADIATIVE AND PHYSIOLOGICAL EFFE CTS OF DOUBLED CO2 ON THEGLOBAL CLIMATE
02/22/1996 – 03/31/1998 FY97: $116,499 Total: $167,099
Prin. Invest.: L BOUNOUA, NONE
Tech. Officer: GSFC/P J SELLERS, GSFC/J G COLLATZ
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3243 UNIVERSITY OF MARYLAND – COLLEGE PARK **5271**
THE UNIVERSITY OF MARYLAND COOPERATION WITH CARPE
05/21/1996 – 05/31/1997 FY97: $129,900 Total: $327,900
Prin. Invest.: C O JUSTICE
Tech. Officer: GSFC/C J TUCKER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3277 UNIVERSITY OF MARYLAND – COLLEGE PARK **5272**
HIGH RESOLUTION SPECTRAL AND TEMPORAL STUDIES OF C YGNUS X–3 WITH XTE AND ASCA
07/01/1996 – 01/14/1998 FY97: $0 Total: $13,900
Prin. Invest.: M STARK
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3278 UNIVERSITY OF MARYLAND – COLLEGE PARK **5273**
TARGET OF OPPORTUNITY OBSERVATIONS OF BLACK–HOLE C ANIDATES
07/03/1996 – 01/14/1998 FY97: $0 Total: $22,971
Prin. Invest.: D SMITE
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3361 UNIVERSITY OF MARYLAND – COLLEGE PARK **5274**
ISO DATA ANALYSIS IN PROGRAM FOR RESEARCH TO BE CO NDUCTED AT THE UMD
08/28/1996 – 08/31/1997 FY97: $0 Total: $101,200
Prin. Invest.: D G CURRLA
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3393 UNIVERSITY OF MARYLAND – COLLEGE PARK **5275**
THE OBSCURING MATERIAL INLINE OF SIGHT TO SEYFERT 1 NUCLEUS OF NGC 3281; THERELATIONSHIP
09/06/1996 – 03/14/1998 FY97: $0 Total: $65,000
Prin. Invest.: A WILSON
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3397 UNIVERSITY OF MARYLAND – COLLEGE PARK **5276**
GALACTIC BLACK HOLES AND POSITRON ANNIHILATION RAD
09/26/1996 – 09/30/1997 FY97: –$45,000 Total: $0
Prin. Invest.: M LEVENTHAL
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3425 UNIVERSITY OF MARYLAND – COLLEGE PARK **5277**
BEYOND HUMAN CONTROL
09/14/1996 – 09/30/1998 FY97: $0 Total: $49,796
Prin. Invest.: K L NORMAN, E D MURPHY
Tech. Officer: GSFC/W F TRUSZKOWSKI
CASE Category: 69 – PSYCHOLOGY, OTHER

NAG 5 3454 UNIVERSITY OF MARYLAND – COLLEGE PARK **5278**
TERRESTRIAL MONITORING AT HIGH SPATIAL RESOLUTION: THE ROLE OF LANDSAT–TYPESENSORS IN MISSION.....
10/07/1996 – 10/31/1997 FY97: $433,576 Total: $433,576
Prin. Invest.: D GOWARD, NONE
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3455 UNIVERSITY OF MARYLAND – COLLEGE PARK **5279**
ENHANCED ANTARCTIC RESEARCH WITH LANDSAT: ICE SHEE T DYNAMICS, HISTORY, AND CARTOGRAPHY
10/07/1996 – 10/31/1997 FY97: $51,320 Total: $51,320
Prin. Invest.: M A FAHNSTOCK
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3496 UNIVERSITY OF MARYLAND – COLLEGE PARK **5280**
JOINT SCIENTIFIC AND TECHNICAL COMMITTEE OF THE GL SYSTEM
01/24/1997 – 07/31/1997 FY97: $136,699 Total: $136,699
Prin. Invest.: J TOWNSHEND
Tech. Officer: GSFC/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3526 UNIVERSITY OF MARYLAND – COLLEGE PARK **5281**
PRECOLLEGE SCIENCE EDUCATION WORKSHOP FOR SPACE SC
12/16/1996 – 01/31/1997 FY97: $16,110 Total: $16,110
Prin. Invest.: R E LOPEZ
Tech. Officer: GSFC/M PHELPS
CASE Category: 11 – ASTRONOMY

NAG 5 3532 UNIVERSITY OF MARYLAND – COLLEGE PARK **5282**
DEVELOP OF A DEMONSTRATION MODEL LOW–COST, HIGH CO PC–BASED TELEMEDICINE SYSAPPLICABLE FOR SPACE AN
12/23/1996 – 11/30/1997 FY97: $93,106 Total: $93,106
Prin. Invest.: D S LIU
Tech. Officer: GSFC/C DOARN
CASE Category: 56 – MEDICL

NAG 5 3548 UNIVERSITY OF MARYLAND – COLLEGE PARK **5283**
RADAR BACKSCATTER MODELING AND ALGORITHM DEVELOPME NT FOR FORREST PARAMETERSRETRIEVAL FROM SAR DATA
11/27/1996 – 11/30/1997 FY97: $96,244 Total: $96,244
Prin. Invest.: O LIANG
Tech. Officer: GSFC/K J RANSON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3562 UNIVERSITY OF MARYLAND – COLLEGE PARK **5284**
VLA OBSERVATIONS OF YZ CANIS MINORIS IN SUPPORT OF HST/GHRS AND EUVE OBSERVATIONS
01/08/1997 – 01/14/1998 FY97: $14,000 Total: $14,000
Prin. Invest.: M KUNDU
Tech. Officer: GSFC/B E WOODGATE
CASE Category: 11 – ASTRONOMY

NAG 5 3593 UNIVERSITY OF MARYLAND – COLLEGE PARK **5285**
HARD X-RAY TIMING STUDIES IN SOLAR FLARES
12/11/1996 – 12/14/1997 FY97: $28,000 Total: $28,000
Prin. Invest.: M J ASCHWANDEN
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3676 UNIVERSITY OF MARYLAND – COLLEGE PARK **5286**
OSSE 511 KEV OBSERVATIONS AND MAPPING
01/08/1997 – 01/14/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: M LEVENTHAL
Tech. Officer: GSFC/N P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3677 UNIVERSITY OF MARYLAND – COLLEGE PARK **5287**
HARD X-RAYS FROM STELLER FLARES AND THE SOLAR ANAL
01/04/1997 – 01/14/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: S WHITE
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3678 UNIVERSITY OF MARYLAND – COLLEGE PARK **5288**
TROPOSPHERIC CONVECTION AND STRATOSPHERE-TROPOSPHE ON PHOTOCHEMISTRY, AEROSOLS, AND CLIMATE
01/04/1997 – 01/14/1998 FY97: $265,000 Total: $265,000
Prin. Invest.: K E PICKERING
Tech. Officer: GSFC/M D HALL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3739 UNIVERSITY OF MARYLAND – COLLEGE PARK **5289**
CLIMATIC EFFECTS OF VOLCANIC ERUPTIONS
02/25/1997 – 02/28/1998 FY97: $55,000 Total: $55,000
Prin. Invest.: A ROBOCK
Tech. Officer: GSFC/K H BERGMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3788 UNIVERSITY OF MARYLAND – COLLEGE PARK **5290**
DIRECT MEASUREMENTS OF TROPOSPHERE OZONE FRON TOMS
03/15/1997 – 01/31/1998 FY97: $116,560 Total: $116,560
Prin. Invest.: R D HUDSON
Tech. Officer: GSFC/J A KAYE
CASE Category: 11 – ASTRONOMY

NAG 5 3832 UNIVERSITY OF MARYLAND – COLLEGE PARK **5291**
THE NATURE OF THE X-RAY SOURCE IN THE PRECATACLYSM
02/10/1997 – 02/14/1998 FY97: $26,000 Total: $26,000
Prin. Invest.: S M WHITE
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3836 UNIVERSITY OF MARYLAND – COLLEGE PARK **5292**
LOW LUMINOSITY ACCRETION ONTO COMPACT OBJECTS
02/11/1997 – 02/14/1998 FY97: $70,000 Total: $70,000
Prin. Invest.: J L WANG
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3840 UNIVERSITY OF MARYLAND – COLLEGE PARK **5293**
MAGNETOHYDRODYNAMIC MODELS OF THE COLD INTERSTELLA
02/14/1997 – 02/14/1998 FY97: $82,300 Total: $82,300
Prin. Invest.: E C OSTRIKER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3846 UNIVERSITY OF MARYLAND – COLLEGE PARK **5294**
REMOTE SENSING OF SAHEL PRIMARY PRODUCTION
01/24/1997 – 09/30/1997 FY97: $220,000 Total: $220,000
Prin. Invest.: D D PRINCE
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3850 UNIVERSITY OF MARYLAND – COLLEGE PARK **5295**
GLOBAL MAPPING OF VEGETATIVE LAND COVER
01/24/1997 – 08/14/1997 FY97: $193,221 Total: $193,221
Prin. Invest.: D TOWNSHEND
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3851 UNIVERSITY OF MARYLAND – COLLEGE PARK **5296**
BIOSPHERIC MONITORING FROM SPACE: ENVIRONMENTAL C PRODUCTION
01/24/1997 – 08/31/1997 FY97: $134,377 Total: $134,377
Prin. Invest.: S N GOWARD
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3860 UNIVERSITY OF MARYLAND – COLLEGE PARK **5297**
ASSESSING THE IMPACT OF EXPANDING URBAN LAND USE & USING REMOTE SENSING DATA& PHYSCIALLY-BASED SOIL
12/30/1996 – 12/14/1997 FY97: $141,849 Total: $141,849
Prin. Invest.: W T LAWRENCE
Tech. Officer: GSFC/A J TUYAHOV
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3960 UNIVERSITY OF MARYLAND – COLLEGE PARK **5298**
THE EFFECT OF VARIATIONS IN PACIFIC FRESH-WATER AN INDIAN OCEAN
02/18/1997 – 12/31/1997 FY97: $108,460 Total: $108,460
Prin. Invest.: R WAJSOWICZ
Tech. Officer: GSFC/N MAYNARD
CASE Category: 33 – OCEANOGRAPHY

NAG 5 4006 UNIVERSITY OF MARYLAND – COLLEGE PARK **5299**
A STUDY OF THE SURFACE PROPERTIES & ICE DYNAMICS O SHEET USING SAR
03/06/1997 – 12/31/1997 FY97: $77,543 Total: $77,543
Prin. Invest.: D FAHNESTOCK
Tech. Officer: GSFC/R H THOMAS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4026 UNIVERSITY OF MARYLAND – COLLEGE PARK **5300**
ELECTRON TIME–OF–FLIGHT KINEMATICS IN SOLAR FLARES
03/13/1997 – 02/28/1998 FY97: $59,000 Total: $59,000
Prin. Invest.: D J ASCHWANDEN
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NAG 5 4056 UNIVERSITY OF MARYLAND – COLLEGE PARK **5301**
SATELLITE BASED IDENTIFICATION OF LINKED VEGETATIO SURFACE TEMPERATURE ANOMALY AREAS
03/11/1997 – 03/14/1998 FY97: $159,150 Total: $159,150
Prin. Invest.: J R TOWNSHEND
Tech. Officer: GSFC/C J TUCKER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4080 UNIVERSITY OF MARYLAND – COLLEGE PARK **5302**
OBSERVATIONS OF COMETS AND ASTEROIDS
04/11/1997 – 11/30/1997 FY97: $100,000 Total: $100,000
Prin. Invest.: D F A'HEARN
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 4092 UNIVERSITY OF MARYLAND – COLLEGE PARK **5303**
A SPECTROSCOPIC INVESTIGATION INTO THE "MISSING UV
03/10/1997 – 12/31/1997 FY97: $66,000 Total: $66,000
Prin. Invest.: D C BALACHANDRAN, NONE
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 4096 UNIVERSITY OF MARYLAND – COLLEGE PARK **5304**
CRYOGENIC SAPPHIRE MONOCRYSTALLINE OPTICAL CAVITY N AND PRECISE TIME MEASUREMENTS
03/10/1997 – 03/14/1998 FY97: $30,000 Total: $30,000
Prin. Invest.: P P RICHARD
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 4106 UNIVERSITY OF MARYLAND – COLLEGE PARK **5305**
OSSE OBSERVATIONS OF HARD X–RAY BRIGHT SEYFERT 2 G
03/24/1997 – 03/31/1998 FY97: $7,268 Total: $7,268
Prin. Invest.: G M MADEJSKI
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 4152 UNIVERSITY OF MARYLAND – COLLEGE PARK **5306**
CROSS CORRELATION OF SOLAR WIND PLASMA PARAMETERS SOHO AND SWE ON WIND
03/25/1997 – 03/31/1998 FY97: $80,143 Total: $80,143
Prin. Invest.: D A COPLAN
Tech. Officer: GSFC/J GREBOWSKY
CASE Category: 13 – PHYSICS

NAG 5 4186 UNIVERSITY OF MARYLAND – COLLEGE PARK **5307**
A STUDY WITH ALTIMETRY OF LOW FREQUENCY VARIABILIT KUROSHIO EXTENSION
04/01/1997 – 03/31/1998 FY97: $62,964 Total: $62,964
Prin. Invest.: L WANG
Tech. Officer: GSFC/N MAYNARD
CASE Category: 33 – OCEANOGRAPHY

NAG 5 4201 UNIVERSITY OF MARYLAND – COLLEGE PARK **5308**
X–RAY EMISSION FROM COMETS
03/17/1997 – 03/31/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: D F A'HEARN
Tech. Officer: GSFC/W HUEBNER
CASE Category: 11 – ASTRONOMY

NAG 5 4255 UNIVERSITY OF MARYLAND – COLLEGE PARK **5309**
VARIABLE ICE–SHEET DISCHARGE & COASTAL CHANGE IN W
04/04/1997 – 12/31/1997 FY97: $66,295 Total: $66,295
Prin. Invest.: M FANESTOCK
Tech. Officer: GSFC/R H THOMAS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4278 UNIVERSITY OF MARYLAND – COLLEGE PARK **5310**
GLOBAL MHD SIMULATION OF THE SOLAR NEBULA
04/01/1997 – 03/31/1998 FY97: $49,786 Total: $49,786
Prin. Invest.: P M STONE
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4313 UNIVERSITY OF MARYLAND – COLLEGE PARK **5311**
A SPACE PHYSICS ANALYSIS AND PLANNING TOOL
05/09/1997 – 03/31/1998 FY97: $104,500 Total: $104,500
Prin. Invest.: D C GOODRICH
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 4352 UNIVERSITY OF MARYLAND – COLLEGE PARK **5312**
ADVANCED CALORIMETER FOR COMPOSITION OF ELEMENTS O (ACCESS) TO STUDY >10 TEVCOSMIC RAYS
04/14/1997 – 01/31/1999 FY97: $27,597 Total: $27,597
Prin. Invest.: D SEO
Tech. Officer: GSFC/R HOWARD
CASE Category: 13 – PHYSICS

NAG 5 4363 UNIVERSITY OF MARYLAND – COLLEGE PARK **5313**
INSTRUMENTATION UPGRADE FOR COMETARY OBSERVATIONS
05/30/1997 – 10/31/1997 FY97: $77,500 Total: $77,500
Prin. Invest.: D F A'HEARN
Tech. Officer: GSFC/W HUEBNER
CASE Category: 11 – ASTRONOMY

NAG 5 4429 UNIVERSITY OF MARYLAND – COLLEGE PARK **5314**
A LABORATORY AND OBSERVATIONAL STUDY OF THE CHEMIC PROTOSTELLAR NEBULAE
05/06/1997 – 03/31/1998 FY97: $44,570 Total: $44,570
Prin. Invest.: D G MUNDY
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4487 UNIVERSITY OF MARYLAND – COLLEGE PARK **5315**
CONTINUED MONITORING OF THE EMISSION FROM GRO J174
05/08/1997 – 04/30/1998 FY97: $17,282 Total: $17,282
Prin. Invest.: M STARK
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4551 UNIVERSITY OF MARYLAND – COLLEGE PARK **5316**
MULTI-LOOP MODELS OF ACTIVE REGIONS USING EUV, SXR
05/05/1997 – 04/30/1998 FY97: $55,260 Total: $55,260
Prin. Invest.: D J ASCHWANDEN
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NAG 5 4638 UNIVERSITY OF MARYLAND – COLLEGE PARK **5317**
DEVELOPMENT OF ION AND ELECTRON PLASMA INSTRUMENT W DESIGN CONCEPTS FOR THE MINIMUM SOLAR MISSION
05/30/1997 – 05/31/1998 FY97: $18,951 Total: $18,951
Prin. Invest.: M A COPLAN
Tech. Officer: GSFC/E C SITTLER
CASE Category: 13 – PHYSICS

NAG 5 4662 UNIVERSITY OF MARYLAND – COLLEGE PARK **5318**
DATA ASSIMILATIVE ANALYSIS OF THE GGS DATA SET USI
06/05/1997 – 05/31/1998 FY97: $29,149 Total: $29,149
Prin. Invest.: D E LOPEZ
Tech. Officer: GSFC/J GREBOWSKY
CASE Category: 13 – PHYSICS

NAG 5 4740 UNIVERSITY OF MARYLAND – COLLEGE PARK **5319**
THEORETICAL MODELS OF COMETARY OBSERVATIONS
06/04/1997 – 05/31/1998 FY97: $49,737 Total: $49,737
Prin. Invest.: D F A'HEARN
Tech. Officer: GSFC/W HUEBNER
CASE Category: 11 – ASTRONOMY

NAG 5 4769 UNIVERSITY OF MARYLAND – COLLEGE PARK **5320**
ISOTOPIC AND GEOCHEMICAL INVESTIGATIONS OF METEORI
06/09/1997 – 07/31/1998 FY97: $63,603 Total: $63,603
Prin. Invest.: D J WALKER
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4809 UNIVERSITY OF MARYLAND – COLLEGE PARK **5321**
ADVANCED AUTOMATION CONCEPTS IN SPACEFLIGHT DYNAMI NAVIGATION
07/30/1997 – 07/31/1998 FY97: $101,175 Total: $101,175
Prin. Invest.: D SCHMIDT
Tech. Officer: GSFC/D WEIDOW
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 5 4811 UNIVERSITY OF MARYLAND – COLLEGE PARK **5322**
DEFORESTRATION AND DEGRADATION IN SOUTHERN AND CEN
06/25/1997 – 10/31/1998 FY97: $287,500 Total: $287,500
Prin. Invest.: S PRINCE
Tech. Officer: GSFC/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4861 UNIVERSITY OF MARYLAND – COLLEGE PARK **5323**
CLIMATE CHANGE, EXTREME COASTAL WATER LEVEL EVENTS EROSION
06/20/1997 – 06/30/1999 FY97: $140,000 Total: $140,000
Prin. Invest.: B DOUGLAS
Tech. Officer: GSFC/M BALTUCK
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4954 UNIVERSITY OF MARYLAND – COLLEGE PARK **5324**
ABUNDANCES OF ELEMENTS RELATIVE TO HYDROGEN IN THE
06/23/1997 – 06/14/1998 FY97: $57,994 Total: $57,994
Prin. Invest.: D M WHITE
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NAG 5 5056 UNIVERSITY OF MARYLAND – COLLEGE PARK **5325**
ANALYTIC AND MONTE CARLO STUDIES OF ENERGETIC PARTICLE TRANSPORT
03/29/1996 – 02/28/1998 FY97: $30,000 Total: $60,000
Prin. Invest.: J A EARL
Tech. Officer: GSFC/H C NEEDLEMAN
CASE Category: 13 – PHYSICS

NAG 5 5061 UNIVERSITY OF MARYLAND – COLLEGE PARK **5326**
SEARCHING FOR ANTIMATTER AND COSMIC RAY STUDIES USING BESS
05/09/1996 – 02/28/1998 FY97: $99,000 Total: $194,900
Prin. Invest.: E S SEO, NONE
Tech. Officer: GSFC/H C NEDDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5062 UNIVERSITY OF MARYLAND – COLLEGE PARK **5327**
THE ADVANCED THIN IONIZATION CALORIMETER (ATIC) BALLOON EXPERIMENT
03/29/1996 – 02/28/1998 FY97: $264,210 Total: $519,210
Prin. Invest.: E S SEO
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MARRITT
CASE Category: 13 – PHYSICS

NAG 5 5083 UNIVERSITY OF MARYLAND – COLLEGE PARK **5328**
PROTON MAGNETIC SPECTROMETER FOR CUSP MEASUREMENTS
06/14/1996 – 11/30/1997 FY97: $87,000 Total: $157,700
Prin. Invest.: M A COPLAN
Tech. Officer: GSFC/L W CURKIN
CASE Category: 13 – PHYSICS

NAG 5 5139 UNIVERSITY OF MARYLAND – COLLEGE PARK **5329**
ABSORPTION AND SCATTERING MEASUREMENTS IN THE MIDDLE ATLANTIC BIGHT – UNDERSTANDING OCEAN COLOR
04/25/1997 – 08/30/1997 FY97: $23,989 Total: $23,989
Prin. Invest.: A VODACEK
Tech. Officer: GSFC/F HOGE
CASE Category: 33 – OCEANOGRAPHY

NAG 5 5161 UNIVERSITY OF MARYLAND – COLLEGE PARK **5330**
GLOBAL SOIL MOISTURE DATA SET FROM SATELLITE AND G FOR CLIMATIC STUDIES & EVAL. OF THE HYDROLOGICAL
07/18/1997 – 07/14/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: K VINNIKOV
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 5163 UNIVERSITY OF MARYLAND – COLLEGE PARK **5331**
TOPOGRAPHIC EFFECTS ON SOLAR RADIATION AND REMOTEL RADIANCES
07/18/1997 – 06/30/1998 FY97: $63,757 Total: $63,757
Prin. Invest.: R DUBAYAH
Tech. Officer: GSFC/D WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6004 UNIVERSITY OF MARYLAND – COLLEGE PARK **5332**
CHARACTERIZING LAND–COVER HETEROGENEITY AND LAND–C SENSOR SATELLITE DATA
08/28/1997 – 12/14/1998 FY97: $265,334 Total: $265,334
Prin. Invest.: D DEFRIES
Tech. Officer: HQ/A JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6044 UNIVERSITY OF MARYLAND – COLLEGE PARK **5333**
WASP: A WIDEBAND AUTOCORRELATOR FOR HETERODYNE SP
07/24/1997 – 06/30/1998 FY97: $54,877 Total: $54,877
Prin. Invest.: D HARRIS
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 6059 UNIVERSITY OF MARYLAND – COLLEGE PARK **5334**
COLLISIONLESS SHOCK PHENOMENA IN THE SOLAR ATMOSPH RADIO EMISSION
07/29/1997 – 06/30/1998 FY97: $44,686 Total: $44,686
Prin. Invest.: D THEJAPPA
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 – ASTRONOMY

NAG 5 6069 UNIVERSITY OF MARYLAND – COLLEGE PARK **5335**
BOREAL ECOSYSTEM–ATMOSPHERE INFORMATION SYSTEMS DE
07/28/1997 – 06/30/1998 FY97: $84,479 Total: $84,479
Prin. Invest.: K F HUEMMERICH
Tech. Officer: GSFC/F G HALL
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6094 UNIVERSITY OF MARYLAND – COLLEGE PARK **5336**
COMPILATION OF GLOBAL TERRESTRIAL PRIMARY PRODUCTI
09/05/1997 – 08/31/1998 FY97: $113,538 Total: $113,538
Prin. Invest.: D PRINCE
Tech. Officer: HQ/D WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6141 UNIVERSITY OF MARYLAND – COLLEGE PARK **5337**
SPECTROSCOPY OF X–RAY EMISSION FROM COMETS P/ENCKE
08/01/1997 – 07/31/1998 FY97: $16,200 Total: $16,200
Prin. Invest.: C LISSE
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 6142 UNIVERSITY OF MARYLAND – COLLEGE PARK **5338**
HARD X–RAY SOURCES IN ACTIVE GALACTIC NUCLEI WITH
08/01/1997 – 07/31/1998 FY97: $19,000 Total: $19,000
Prin. Invest.: A WILSON
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 6152 UNIVERSITY OF MARYLAND – COLLEGE PARK **5339**
TO SUPPORT BASIC RESEARCH IN THE DEVELOPMENT OF A NUMERICAL SIMULATION OF THE MHD EQUATIONS IN SPHE
09/08/1997 – 09/14/1998 FY97: $145,182 Total: $145,182
Prin. Invest.: A DEANE, NONE
Tech. Officer: GSFC/M L GOLDSTEIN
CASE Category: 13 – PHYSICS

NAG 5 6155 UNIVERSITY OF MARYLAND – COLLEGE PARK **5340**
SEARCH FOR X–RAYS FROM COMETS P/ENCKE AND C/HALE–B
09/11/1997 – 08/31/1998 FY97: $7,400 Total: $7,400
Prin. Invest.: C LISSE
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 6190 UNIVERSITY OF MARYLAND – COLLEGE PARK **5341**
MAGNETIC RECONNECTION AND ASSOCIATED WAVE AND PART LISION-LESS PLASMA
08/13/1997 – 06/30/1998 FY97: $70,000 Total: $70,000
Prin. Invest.: D F DRAKE
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 6234 UNIVERSITY OF MARYLAND – COLLEGE PARK **5342**
THE INTERACTION OF LUMINOUS BLUE VARIABLES WITH TH
08/19/1997 – 08/14/1998 FY97: $3,900 Total: $3,900
Prin. Invest.: S M WHITE
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 6256 UNIVERSITY OF MARYLAND – COLLEGE PARK **5343**
COMPARISON BETWEEN GLOBAL MHD SIMULATION AND MULTI OBSERVATIONS
08/27/1997 – 08/31/1998 FY97: $30,000 Total: $30,000
Prin. Invest.: D E LOPEZ
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 6257 UNIVERSITY OF MARYLAND – COLLEGE PARK **5344**
RESEARCH IN SOLAR RADIO ASTRONOMY AT SHORT WAVELEN
08/27/1997 – 08/31/1998 FY97: $114,000 Total: $114,000
Prin. Invest.: D KUNDU
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 – ASTRONOMY

NAG 5 6282 UNIVERSITY OF MARYLAND – COLLEGE PARK **5345**
DETECTING THE LOCATION, SPATIAL EXTENT, RATES AND TROPICAL DEFORESTATION
09/22/1997 – 08/31/1998 FY97: $378,343 Total: $378,343
Prin. Invest.: J TOWNSHEND
Tech. Officer: GSFC/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6319 UNIVERSITY OF MARYLAND – COLLEGE PARK **5346**
COMBINING REMOTE SENSING AND HYDROLOGICAL MODELING ENERGY BALANCE STUDIES
09/11/1997 – 09/30/1998 FY97: $212,000 Total: $212,000
Prin. Invest.: R DUBAYAH
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6364 UNIVERSITY OF MARYLAND – COLLEGE PARK **5347**
A VERSION 2 AVHRR MULTIRESOLUTION LAND PATHFINDER
09/17/1997 – 06/30/1998 FY97: $235,006 Total: $235,006
Prin. Invest.: J TOWNSHEND
Tech. Officer: GSFC/T JANEOTS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6421 UNIVERSITY OF MARYLAND – COLLEGE PARK **5348**
GLOBAL VEGETATION DYNAMICS
09/26/1997 – 08/31/1998 FY97: $250,893 Total: $250,893
Prin. Invest.: S D PRINCE
Tech. Officer: GSFC/S PRINCE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 8 1027 UNIVERSITY OF MARYLAND – COLLEGE PARK **5349**
RADIO JET STUDY
01/27/1994 – 02/19/1998 FY97: $84,000 Total: $285,000
Prin. Invest.: A S WILSON
Tech. Officer: MSFC/M E ROSENTHAL
CASE Category: 11 – ASTRONOMY

NAGW 1346 UNIVERSITY OF MARYLAND – COLLEGE PARK **5350**
3 DIMENSIONAL CONSIDERATIONS OF SOLAR LOOP EQUILIBRIA
07/06/1988 – 11/30/1995 FY97: –$20,000 Total: $385,788
Prin. Invest.: J M FINN, A B HASAM
Tech. Officer: HQ/J D BOHLIN, HQ/S KANE
CASE Category: 13 – PHYSICS

NAGW 1541 UNIVERSITY OF MARYLAND – COLLEGE PARK **5351**
RESEARCH IN SOLAR ASTRONOMY AT SHORT WAVELENGTHS
12/06/1988 – 08/31/1997 FY97: $0 Total: $697,281
Prin. Invest.: M R KUNDU
Tech. Officer: HQ/J D BOHLIN, HQ/S KANE
CASE Category: 13 – PHYSICS

NAGW 1813 UNIVERSITY OF MARYLAND – COLLEGE PARK **5352**
INFRARED AURORAL PROCESSES IN JUPITER
07/10/1989 – 06/30/1996 FY97: $0 Total: $273,000
Prin. Invest.: M J A'HEARN
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1886 UNIVERSITY OF MARYLAND – COLLEGE PARK **5353**
OBSERVATIONS OF COMETS AND ASTEROIDS
04/10/1990 – 11/30/1996 FY97: $100,000 Total: $995,530
Prin. Invest.: M F AHEARN
Tech. Officer: HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NAGW 1967 UNIVERSITY OF MARYLAND – COLLEGE PARK **5354**
NAGW–1967/UNIV OF MD/PRIMARY PRODUCTION MODELLING IN THE SAHEL USING NOAA AVHRR DATA
02/16/1990 – 09/30/1997 FY97: $0 Total: $847,000
Prin. Invest.: S D PRINCE
Tech. Officer: HQ/G ASRAR, HQ/T J PIEPER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 1990 UNIVERSITY OF MARYLAND – COLLEGE PARK **5355**
RESEARCH ON TECHNIQUES FOR MEASUREMENTS OF THE COM POSITION OF SOLAR ENERGETIC PARTICLES
04/30/1990 – 10/31/1995 FY97: $0 Total: $645,000
Prin. Invest.: G M MASON
Tech. Officer: HQ/W V JONES, HQ/J C LING
CASE Category: 13 – PHYSICS

NAGW 2062 UNIVERSITY OF MARYLAND – COLLEGE PARK **5356**
NAGW–2062/UNIV OF MARYLAND @ COLLEGE PARK/RESEARCH IN CHARGED PARTICLE TRANSPORT THEORY
05/05/1990 – 03/31/1998 FY97: $0 Total: $180,000
Prin. Invest.: J A EARL
Tech. Officer: HQ/W V JONES, HQ/J C LING
CASE Category: 13 – PHYSICS

NAGW 2202 UNIVERSITY OF MARYLAND – COLLEGE PARK **5357**
HUMAN RESOURCES NEEDS FOR OCEANIC REMOTE SENSING: A PROPOSAL TO TRAIN FUTURE SCIENTISTS
07/26/1990 – 03/31/1997 FY97: $0 Total: $373,677
Prin. Invest.: C F D'ELIA
Tech. Officer: HQ/M LEWIS
CASE Category: 33 – OCEANOGRAPHY

NAGW 2245 UNIVERSITY OF MARYLAND – COLLEGE PARK **5358**
TELEROBOTICS SPACE OPERATIONS RESEARCH
10/01/1990 – 07/30/1998 FY97: $0 Total: $5,731,832
Prin. Invest.: D AKIN
Tech. Officer: HQ/L HOLCOMB, HQ/D LAVERY
CASE Category: 42 – ASTRONAUTICAL ENGR

NAGW 2504 UNIVERSITY OF MARYLAND – COLLEGE PARK **5359**
STUDY OF ENERGETIC PARTICLE PROCESSES IN THE HELIO SPHERE
07/15/1991 – 04/30/1998 FY97: $0 Total: $590,000
Prin. Invest.: F B MCDONALD
Tech. Officer: HQ/W V JONES, HQ/J C LING
CASE Category: 13 – PHYSICS

NAGW 2696 UNIVERSITY OF MARYLAND – COLLEGE PARK **5360**
DIRECT MEASUREMENTS OF TROPOSPHERIC FROM OZONE TOM S DATA
09/06/1991 – 01/31/1997 FY97: $0 Total: $485,451
Prin. Invest.: R D HUDSON
Tech. Officer: HQ/J A KAYE, HQ/R E MURPHY
CASE Category: 11 – ASTRONOMY

NAGW 2777 UNIVERSITY OF MARYLAND – COLLEGE PARK **5361**
A PROPOSAL FOR ESTABLISHMENT OF A NATIONAL AERONAU TICS AND SPACE ADMINISTRATION CENTER
12/09/1991 – 04/30/1996 FY97: $0 Total: $4,845,615
Prin. Invest.: J BARAS, A EPHREMIDES
Tech. Officer: HQ/V CEVENINI, HQ/C PITTMAN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 2805 UNIVERSITY OF MARYLAND – COLLEGE PARK **5362**
EMERGENCE OF SELF–REPRODUCING STRUCTURES IN CELLUL AR AUTOMATION
01/17/1992 – 01/14/1996 FY97: –$448 Total: $446,398
Prin. Invest.: J A REGGIA
Tech. Officer: HQ/J K ALEXANDER, HQ/D A HOLLAND
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 3066 UNIVERSITY OF MARYLAND – COLLEGE PARK **5363**
A LABORATORY OBSERVATIONAL STUDY OF THE CHEMICAL E VOLUTION OF PROTOSTELLAR NEBULAE
04/28/1992 – 12/31/1996 FY97: $0 Total: $150,000
Prin. Invest.: L MUNDY
Tech. Officer: HQ/J A NUTH,III
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3193 UNIVERSITY OF MARYLAND – COLLEGE PARK **5364**
NAGW-3193/UNIV MARYLAND @ COLLEGE PARK/ABSORBED PH OTO-SYNTHETICALLY ACTIVE RADIATION & SURFACE HEMIS
09/24/1992 – 06/30/1997 FY97: $0 Total: $100,781
Prin. Invest.: C L WALTHALL, J R IRONS, R HALTHORE
Tech. Officer: HQ/D E WICKLAND, HQ/R E MURPHY
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3222 UNIVERSITY OF MARYLAND – COLLEGE PARK **5365**
NAGW-3222/UNIV MARYLAND @ COLLEGE PARK/STUDIES OF THE WEST-WARD ELECTROJET & FIELD-ALIGNED CURRENTS
10/21/1992 – 05/31/1996 FY97: $0 Total: $106,405
Prin. Invest.: R LOPEZ
Tech. Officer: HQ/E C WIPPLE, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 3235 UNIVERSITY OF MARYLAND – COLLEGE PARK **5366**
NAGW-3235/UNIV MARYLAND @ COLLEGE PARK/DETECTING THE LOCA-TION, SPATIAL EXTENT, RATES AND IMPACTS
10/26/1992 – 10/31/1997 FY97: $0 Total: $2,217,069
Prin. Invest.: J TOWNSHEND
Tech. Officer: HQ/M E MAIDEN, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3526 UNIVERSITY OF MARYLAND – COLLEGE PARK **5367**
NAGW-3526/UNIV MARYLAND/COSMIC RAY PROTON & HELIUM SPECTRA IN A BALLOON BORNE EXPERIMENT
04/22/1993 – 02/29/1996 FY97: $0 Total: $344,770
Prin. Invest.: E SEO
Tech. Officer: HQ/W V JONES, HQ/G L WITHBROE
CASE Category: 13 – PHYSICS

NAGW 3588 UNIVERSITY OF MARYLAND – COLLEGE PARK **5368**
AQUEOUS GEOCHEMISTRY, VOLCANOLOGY, AND THE EVOLUTI ON OF THE MARTIAN ATMOSPHERE
05/14/1993 – 02/29/1996 FY97: -$546 Total: $92,309
Prin. Invest.: M W SCHAEFER
Tech. Officer: HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3596 UNIVERSITY OF MARYLAND – COLLEGE PARK **5369**
DYNAMICAL MODELING AND PREDICTION OF SUBSTORMS
06/11/1993 – 07/31/1997 FY97: $0 Total: $243,600
Prin. Invest.: A SHARMA
Tech. Officer: HQ/E C WHIPPLE, HQ/G L WITHBROE
CASE Category: 13 – PHYSICS

NAGW 3598 UNIVERSITY OF MARYLAND – COLLEGE PARK **5370**
SURFACE COMPOSITION OF IO
05/26/1993 – 06/30/1997 FY97: $0 Total: $216,837
Prin. Invest.: R KHANNA
Tech. Officer: HQ/H C BRINTON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3625 UNIVERSITY OF MARYLAND – COLLEGE PARK **5371**
RE-OS ISOTOPE INVESTIGATION OF METEORITES
06/03/1993 – 01/31/1997 FY97: $63,603 Total: $257,759
Prin. Invest.: R WALKER
Tech. Officer: HQ/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3758 UNIVERSITY OF MARYLAND – COLLEGE PARK **5372**
MONITORING AND MODELING THE DYNAMICS OF COASTAL MA RSHES: REGIONAL APPROACH USING LANDSAT DATA
09/29/1993 – 12/31/1997 FY97: $0 Total: $781,830
Prin. Invest.: M KEARNEY
Tech. Officer: HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4034 UNIVERSITY OF MARYLAND – COLLEGE PARK **5373**
RANGER TELEROBOTICS FLIGHT EXPERIMENT
06/17/1994 – 05/31/1997 FY97: $0 Total: $2,750,049
Prin. Invest.: D L AKIN
Tech. Officer: HQ/D B LAVERY
CASE Category: 42 – ASTRONAUTICAL ENGR

NAGW 4094 UNIVERSITY OF MARYLAND – COLLEGE PARK **5374**
PRECOLLEGE SCIENCE EDUCATION WORKSHOP
08/01/1994 – 01/31/1997 FY97: $0 Total: $30,500
Prin. Invest.: R E LOPEZ
Tech. Officer: HQ/M V PHELPS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4188 UNIVERSITY OF MARYLAND – COLLEGE PARK **5375**
BIOSPHERIC MONITORING FROM SPACE: ENVIRONMENTAL C ONSTRAINTS ON PRIMARY PRODUCTION
11/22/1994 – 08/31/1997 FY97: $0 Total: $267,361
Prin. Invest.: S N GOWARD
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4206 UNIVERSITY OF MARYLAND – COLLEGE PARK **5376**
GLOBAL MAPPING OF VEGETATIVE LAND COVER
11/15/1994 – 08/14/1996 FY97: $0 Total: $386,997
Prin. Invest.: J R TOWNSHEND, R DEFRIES, C JUSTICE
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4269 UNIVERSITY OF MARYLAND – COLLEGE PARK **5377**
MEASUREMENT OF THE SPIN VECTOR OF THE LAGEOS SPACE CRAFT
01/25/1995 – 06/30/1997 FY97: $0 Total: $60,000
Prin. Invest.: D CURRIE
Tech. Officer: HQ/E J WEILER, HQ/K LEDBETTER
CASE Category: 13 – PHYSICS

NAGW 4285 UNIVERSITY OF MARYLAND – COLLEGE PARK **5378**
A STUDY OF THE SURFACE PROPERTIES AND ICE DYNAMICS OF THE GREENLAND ICE SHEET
01/31/1995 – 08/31/1998 FY97: $0 Total: $262,676
Prin. Invest.: M FAHNESTOCK
Tech. Officer: HQ/R H THOMAS, HQ/M BALTUCK
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4347 UNIVERSITY OF MARYLAND – COLLEGE PARK **5379**
UNIVERSITY ADVANCED DESIGN PROGRAM
03/21/1995 – 02/28/1996 FY97: $0 Total: $17,350
Prin. Invest.: M LEWIS
Tech. Officer: HQ/A S MCGEE, HQ/G JOHNSTON
CASE Category: 49 – ENGINEERING, OTHER

NAGW 4538 UNIVERSITY OF MARYLAND – COLLEGE PARK **5380**
ADVANCED THIN IONIZATION CALORIMETER (ATIC)
05/26/1995 – 08/31/1996 FY97: $0 Total: $60,172
Prin. Invest.: F B MCDONALD
Tech. Officer: HQ/W V JONES, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4554 UNIVERSITY OF MARYLAND – COLLEGE PARK **5381**
TOPOGRAPHIC EFFECTS ON SOLAR RADIATION AND REMOTEL Y SENSED RADIANCES
06/09/1995 – 09/30/1997 FY97: $0 Total: $126,367
Prin. Invest.: R DUBAYAH, S LLANG
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4580 UNIVERSITY OF MARYLAND – COLLEGE PARK **5382**
GLOBAL HELIOSPHERIC STRUCTURE AND DYNAMICS
06/28/1995 – 07/31/1997 FY97: $0 Total: $100,000
Prin. Invest.: C C GOODRICH
Tech. Officer: HQ/W V JONES, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4661 UNIVERSITY OF MARYLAND – COLLEGE PARK **5383**
DEVELOPMENT AND TESTING OF OPERATIONAL ATMOSPHERIC CORRECTION OF SATELLITE DATA FOR THE NSF–LTER SI
08/16/1995 – 10/31/1997 FY97: $99,366 Total: $193,235
Prin. Invest.: E VERMOTE, J CASTLE, J C ROGER
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4662 UNIVERSITY OF MARYLAND – COLLEGE PARK **5384**
SMALL BODIES NODE OF THE PLANETARY DATA SYSTEM
07/28/1995 – 02/29/1996 FY97: $0 Total: $203,500
Prin. Invest.: M F A'HEARN
Tech. Officer: HQ/J BERSTRALH
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4670 UNIVERSITY OF MARYLAND – COLLEGE PARK **5385**
PARALLAXES AND PROPER MOTIONS OF BRIGHTEST MEMBERS OF ASTROPHYSICALLY PUZZLING CLASSES OF STARS
09/15/1995 – 08/31/1998 FY97: $0 Total: $34,125
Prin. Invest.: V TRIMBLE
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 4700 UNIVERSITY OF MARYLAND – COLLEGE PARK **5386**
THE UNITY OF ACTIVITY IN GALAXIES
08/10/1995 – 09/30/1997 FY97: $0 Total: $129,200
Prin. Invest.: P A WILSON
Tech. Officer: HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 4740 UNIVERSITY OF MARYLAND – COLLEGE PARK **5387**
EVALUATION OF SURFACE RADIAITON BUDGET ALGORITHMS WITH PATHFINDER DATA
09/07/1995 – 06/30/1997 FY97: $0 Total: $169,271
Prin. Invest.: R T PINKER
Tech. Officer: HQ/M E MAIDEN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4790 UNIVERSITY OF MARYLAND – COLLEGE PARK **5388**
A VERSION TWO AVHRR MULTIRESOLUTION LAND PATHFINDE R DATA SET
09/22/1995 – 12/31/1997 FY97: $0 Total: $688,763
Prin. Invest.: J TOWNSHEND, E VORMOTE
Tech. Officer: HQ/M E MAIDEN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4846 UNIVERSITY OF MARYLAND – COLLEGE PARK **5389**
IR/UV STUDY OF JUPITERS IMPACT PERTURBED STRATOSPH ERE AND AURORA
10/12/1995 – 09/30/1996 FY97: $0 Total: $43,872
Prin. Invest.: T LIVENGOOD
Tech. Officer: HQ/E BARKER
CASE Category: 11 – ASTRONOMY

NAGW 4852 UNIVERSITY OF MARYLAND – COLLEGE PARK **5390**
LANDSAT PATHFINDER SCIENCE
10/24/1995 – 12/31/1997 FY97: $0 Total: $165,500
Prin. Invest.: N AVAILABLE
Tech. Officer: HQ/N AVAILABLE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4871 UNIVERSITY OF MARYLAND – COLLEGE PARK **5391**
SUPPORT OF THE OFFICE OF THE CHAIRMAN OF THE JOINT SCIENTIFIC AND TECHNICALCOMITTEE
11/20/1995 – 07/31/1996 FY97: $0 Total: $134,202
Prin. Invest.: T TOWNSHEND
Tech. Officer: HQ/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4912 UNIVERSITY OF MARYLAND – COLLEGE PARK **5392**
CLIMATE EFFECTS OF VOLCANIC ERUPTIONS
02/07/1996 – 02/28/1997 FY97: $0 Total: $55,000
Prin. Invest.: A ROBOCK, G STENCHIKOV
Tech. Officer: HQ/K H BERGMAN, HQ/R C HARRISS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4922 UNIVERSITY OF MARYLAND – COLLEGE PARK **5393**
MICROWAVE OBSERVATIONS OF JUPITER'S TROPOSPHERE
04/02/1996 – 12/31/1996 FY97: $0 Total: $49,920
Prin. Invest.: A W GROSSMAN
Tech. Officer: HQ/E BARKER, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 4947 UNIVERSITY OF MARYLAND – COLLEGE PARK **5394**
VARIABLE ICE–SHEET DISCHARGE AND COASTAL CHANGE IN WEST ANTARCTICA
02/23/1996 – 06/30/1998 FY97: $0 Total: $65,922
Prin. Invest.: M FAHNESTOCK, R KWOK, T SCAMBOS
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 5056 UNIVERSITY OF MARYLAND – COLLEGE PARK **5395**
A SPECTROSCOPIC INVESTIGATION INTO THE MISSING UIV OPACITY PROBLEM
05/24/1996 – 12/31/1997 FY97: $0 Total: $71,161
Prin. Invest.: S BALACHANDRAN
Tech. Officer: HQ/G RIEGLER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5078 UNIVERSITY OF MARYLAND – COLLEGE PARK **5396**
ELECTRON TIME–OF FLIGHT KINEMATICS IN SOLAR FLARES
05/28/1996 – 02/28/1997 FY97: $0 Total: $56,000
Prin. Invest.: M J ASCHWANDEN
Tech. Officer: HQ/W J WAGNER, HQ/G L WITHBROE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5088 UNIVERSITY OF MARYLAND – COLLEGE PARK **5397**
THEORETICAL MODELS OF COMETARY OBSERVATIONS
06/24/1996 – 05/31/1998 FY97: $0 Total: $48,716
Prin. Invest.: M F A'HEARN
Tech. Officer: HQ/E BARKER, HQ/H C BRINTON
CASE Category: 11 – ASTRONOMY

NAGW 5114 UNIVERSITY OF MARYLAND – COLLEGE PARK **5398**
LEARNING CONTROLLERS FOR ENHANCED AUTONOMY OF SPAC E ROBOTS
06/28/1996 – 08/31/1997 FY97: $0 Total: $64,988
Prin. Invest.: D M SANNER
Tech. Officer: HQ/R NETTING
CASE Category: 46 – MECHANICAL ENGR

NAGW 5119 UNIVERSITY OF MARYLAND – COLLEGE PARK **5399**
A DYNAMIC PRA TOOL FOR SPACE APPLICATIONS
07/08/1996 – 12/30/1997 FY97: $0 Total: $74,943
Prin. Invest.: C SMIDTS, A MOSLEH
Tech. Officer: HQ/R M WEINSTOCK
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAGW 5175 UNIVERSITY OF MARYLAND – COLLEGE PARK **5400**
MAGNETIC RECONNECTION AND ASSOCIATED WAVE AND PART ICLE SIGNATURES IN COLLISIONLESS PLASMA
10/03/1996 – 06/30/1997 FY97: $70,000 Total: $70,000
Prin. Invest.: J F DRAKE
Tech. Officer: HQ/J D BOHLIN, HQ/G L WITHBROE
CASE Category: 13 – PHYSICS

NAGW 5178 UNIVERSITY OF MARYLAND – COLLEGE PARK **5401**
COMPILATION OF GLOBAL TERRESTRIAL PRIMARY PRODUCTI ON DATA: PART II
10/29/1996 – 06/30/1997 FY97: $143,986 Total: $143,986
Prin. Invest.: S D PRINCE, R J OLSON
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 5191 UNIVERSITY OF MARYLAND – COLLEGE PARK **5402**
DETAILED QUANTITATIVE COMPARISON BETWEEN GLOBAL MH D SIMULATION RESULTS & MULTIPOINT SPACECRAFT OBSE
09/20/1996 – 02/28/1998 FY97: $30,000 Total: $30,000
Prin. Invest.: R E LOPEZ, NONE
Tech. Officer: HQ/J D BOHLIN, HQ/G L WITHBROE
CASE Category: 13 – PHYSICS

NAGW 5194 UNIVERSITY OF MARYLAND – COLLEGE PARK **5403**
COMBINING REMOTE SENSING & HYDROLOGICAL MODELING F OR APPLIED WATER & ENERGYBALANCE STUDIES
09/20/1996 – 09/30/1997 FY97: $227,000 Total: $227,000
Prin. Invest.: D DUBAYAH
Tech. Officer: HQ/M WEI, HQ/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 5227 UNIVERSITY OF MARYLAND – COLLEGE PARK **5404**
RESEARCH (GLOBAL)
10/08/1996 – 05/31/1998 FY97: $97,300 Total: $97,300
Prin. Invest.: K VINNIKOV
Tech. Officer: HQ/M WEI, HQ/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 5244 UNIVERSITY OF MARYLAND – COLLEGE PARK **5405**
NEW METHODS FOR MEASURING ICE MOTION
10/29/1996 – 06/30/1997 FY97: $89,159 Total: $89,159
Prin. Invest.: M A FAHNESTOCK
Tech. Officer: HQ/G ASRAR, HQ/R C HARRISS
CASE Category: 33 – OCEANOGRAPHY

NAS 1 97129 UNIVERSITY OF MARYLAND – COLLEGE PARK **5406**
DEVELOPMENT OF DISTRIBUTED FIBER OPTIC BASED HYDROGEB SENSORS FOR A X–33 FUEL TANK
05/20/1997 – 09/18/1997 FY97: $118,664 Total: $118,664
Prin. Invest.: J S SIRKIS
Tech. Officer: LARC/L MELVIN, LARC/R ROGOWSKI
CASE Category: 46 – MECHANICAL ENGR

NAS 3 25370 UNIVERSITY OF MARYLAND – COLLEGE PARK **5407**
CRITICAL FLUID LIGHT SCATTERING EXPERIMENTS (ZENO)
12/22/1988 – 12/31/1997 FY97: $32,574 Total: $22,999,573
Prin. Invest.: R W GAMMON
Tech. Officer: LERC/R W LAUVER
CASE Category: 49 – ENGINEERING, OTHER

NAS 5 31365 UNIVERSITY OF MARYLAND – COLLEGE PARK **5408**
EOS EXECUTION PHASE
01/02/1992 – 12/14/2001 FY97: $570,000 Total: $2,308,790
Prin. Invest.: C JUSTICE
Tech. Officer: GSFC/H OSEROFF
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 5 31732 UNIVERSITY OF MARYLAND – COLLEGE PARK **5409**
R & D STUDIES IN BIOSHPERE–ATOMOSPHERE INTERACTIONS
11/22/1991 – 12/31/1999 FY97: $50,000 Total: $728,400
Prin. Invest.: C JUSTICE
Tech. Officer: GSFC/P SELLERS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 32378 UNIVERSITY OF MARYLAND – COLLEGE PARK **5410**
ATM/ACTS INTERFACE
06/20/1995 – 03/31/1997 FY97: $0 Total: $39,942
Prin. Invest.: J S BARAS
Tech. Officer: GSFC/PGARY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 96060 UNIVERSITY OF MARYLAND – COLLEGE PARK **5411**
DEFINITION PHASE ACTIVITIES ASSOCIATED WITH THE MODIS INSTRUMENT OF THE EOS
07/25/1996 – 12/14/2001 FY97: $261,000 Total: $393,000
Prin. Invest.: J TOWNSHEND
Tech. Officer: GSFC/D TOLL
CASE Category: 11 – ASTRONOMY

NAS 5 96062 UNIVERSITY OF MARYLAND – COLLEGE PARK **5412**
DEFINITION PHASE ACTIVITIES ASSOCIATED WITH MODIS INSTRUMENT OF THE EOS
07/02/1996 – 12/14/2001 FY97: $251,000 Total: $334,000
Prin. Invest.: E VERMONTE
Tech. Officer: GSFC/D TOLL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 97160 UNIVERSITY OF MARYLAND – COLLEGE PARK **5413**
VEGETATION CANOPY LIDAR MISSION FOR ESSP
05/15/1997 – 11/30/1997 FY97: $2,034,000 Total: $2,034,000
Prin. Invest.: R DUBAYAH
Tech. Officer: GSFC/J ROBINSON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 8 38137 UNIVERSITY OF MARYLAND – COLLEGE PARK **5414**
DEVELOPEMNT OF A 3 AXIS SUPERCONDUCTING GRAVITY GRADIOMETER FOR SPACE– BORNEGRAVITY SURVEY
06/29/1989 – 12/31/1995 FY97: $0 Total: $2,099,999
Prin. Invest.: H J PAIK, M V MOODY
Tech. Officer: MSFC/S H MORGAN JR.
CASE Category: 42 – ASTRONAUTICAL ENGR

NCC 2 829 UNIVERSITY OF MARYLAND – COLLEGE PARK **5415**
EVALUATION OF METHODOLGY FOR TESTING & ANALYSIS OF ADVANCED ROTORS
09/30/1993 – 12/31/1997 FY97: $60,000 Total: $240,000
Prin. Invest.: I CHOPRA, F HARRIS
Tech. Officer: ARC/W G WARMBRODT, ARC/F FELKER
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 944 UNIVERSITY OF MARYLAND – COLLEGE PARK **5416**
CENTER FOR ROTORCRAFT EDUCATION & RESEARCH
02/23/1996 – 12/31/1997 FY97: $758,426 Total: $1,513,287
Prin. Invest.: I CHOPRA
Tech. Officer: ARC/Y H YU, ARC/J M DAVIS
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5160 UNIVERSITY OF MARYLAND – COLLEGE PARK **5417**
DEVELOPMENT OF HIGH FORCE, HIGH DISOPLACEMENT SMAR T ACTUATOR FOR A ROTOR
09/11/1995 – 09/14/1996 FY97: $0 Total: $30,000
Prin. Invest.: I CHOPRA
Tech. Officer: ARC/C TUNG
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 2 5206 UNIVERSITY OF MARYLAND – COLLEGE PARK **5418**
THE DIFFUSE INTERSTELLAR MEDIUM
03/06/1997 – 09/30/1997 FY97: $24,487 Total: $24,487
Prin. Invest.: L MUNDY
Tech. Officer: ARC/D HOLLENBACH
CASE Category: 11 – ASTRONOMY

NCC 2 5219 UNIVERSITY OF MARYLAND – COLLEGE PARK **5419**
PLANETARY NEBULAE WITH SUPPORTING INFRARED DATA
06/05/1997 – 05/31/1998 FY97: $4,423 Total: $4,423
Prin. Invest.: J HARRINGTON
Tech. Officer: ARC/D GOORITCH
CASE Category: 11 – ASTRONOMY

NCC 2 5237 UNIVERSITY OF MARYLAND – COLLEGE PARK **5420**
INFRARED EMISSION AND THERMAL PROCESSES IN SPIRAL GALAXIES
08/26/1997 – 05/31/1998 FY97: $17,019 Total: $17,019
Prin. Invest.: L G MUNDY, M WHOTIVE
Tech. Officer: ARC/D J HOLLENBACH
CASE Category: 11 – ASTRONOMY

NCC 3 528 UNIVERSITY OF MARYLAND – COLLEGE PARK **5421**
CENTER FOR SATELLITE AND HYBRID COMMUNICATION NETW ORKS
01/30/1997 – 12/15/1997 FY97: $900,000 Total: $900,000
Prin. Invest.: J S BARAS, NONE
Tech. Officer: LERC/J W BAGWELL, LERC/K B BHASIN
CASE Category: 45 – ELECTRICAL ENGR

NCC 5 39 UNIVERSITY OF MARYLAND – COLLEGE PARK **5422**
RESEARCH ATMOSPHERIC SCIENCES—SUMMER INSTITUTE
07/15/1988 – 04/30/1997 FY97: $0 Total: $833,861
Prin. Invest.: F BAER
Tech. Officer: GSFC/E R KREINS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 5 54 UNIVERSITY OF MARYLAND – COLLEGE PARK **5423**
COOPERATIVE RESEARCH IN SATELLITE BASED STUDIES OF PHOTONS AND CHARGED PARTICLES
08/04/1993 – 07/31/1997 FY97: $507,601 Total: $3,083,210
Prin. Invest.: J TRASCO
Tech. Officer: GSFC/A K HARDING
CASE Category: 13 – PHYSICS

NCC 5 55 UNIVERSITY OF MARYLAND – COLLEGE PARK **5424**
JOINT CENTER FOR EARTH SYSTEM SCIENCE
09/22/1993 – 09/30/1997 FY97: $1,390,467 Total: $3,828,494
Prin. Invest.: R D HUDSON
Tech. Officer: GSFC/F EINAUDI, GSFC/C E COTE
CASE Category: 11 – ASTRONOMY

NCC 5 60 UNIVERSITY OF MARYLAND – COLLEGE PARK **5425**
COOPERATIVE RESEARCH IN SPACE GEODESY AND CRUSTAL DYNAMICS
12/06/1993 – 04/30/1998 FY97: $84,650 Total: $925,975
Prin. Invest.: J TRASCO, J D TRASCO
Tech. Officer: GSFC/P MC CLAIN
CASE Category: 11 – ASTRONOMY

NCC 5 81 UNIVERSITY OF MARYLAND – COLLEGE PARK **5426**
SCANNING RAMAN LIDAR TO MEASURE WATER VAPOR AND AE ROSOLS FOR THE STUDY OF ATMOSPHERIC RADIATIVE....
11/18/1994 – 11/30/1997 FY97: $0 Total: $70,000
Prin. Invest.: R ELLINGSON, S H MELFI, R A FERRARE
Tech. Officer: GSFC/G K SCHWEMMER, GSFC/R F ADLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 5 85 UNIVERSITY OF MARYLAND – COLLEGE PARK **5427**
ESTABLISHMENT OF FLIGHT DYNAMICS AND CONTROL LABORATORY
03/22/1995 – 03/31/1998 FY97: $173,191 Total: $434,253
Prin. Invest.: D K SCHMIDT
Tech. Officer: GSFC/P L CROUSE, GSFC/T H STENGLE
CASE Category: 42 – ASTRONAUTICAL ENGR

NCC 5 86 UNIVERSITY OF MARYLAND – COLLEGE PARK **5428**
ATMOSPHERIC EFFECTS OF MID–SIZED VOLCANIC ERUPTION
03/28/1995 – 04/30/1998 FY97: $47,000 Total: $225,338
Prin. Invest.: C C SCHNETZLER
Tech. Officer: GSFC/A KRUEGER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 5 87 UNIVERSITY OF MARYLAND – COLLEGE PARK **5429**
AN INVESTIGATION OF THE FORMATION, GROWTH AND STRUCTURE OF ASTROPHYSICAL SILICATE DUST BY IR....
04/05/1995 – 04/14/1996 FY97: $0 Total: $30,000
Prin. Invest.: J R KHANNA
Tech. Officer: GSFC/J A NUTH
CASE Category: 11 – ASTRONOMY

NCC 5 94 UNIVERSITY OF MARYLAND – COLLEGE PARK **5430**
COOPERATIVE RESEARCH IN SPACE SCIENCES
07/10/1995 – 10/31/1997 FY97: $546,600 Total: $801,890
Prin. Invest.: J D TRASCO, M LEVETHAL
Tech. Officer: GSFC/T KOSTIUK
CASE Category: 11 – ASTRONOMY

NCC 5 128 UNIVERSITY OF MARYLAND – COLLEGE PARK **5431**
A STUDY OF THE DEVELOPMENT OF REMOTE SENSING ALGORITHMS WITH EMPHASIS ON USING THE MODIS INSTR.
01/18/1996 – 12/31/1997 FY97: $0 Total: $427,354
Prin. Invest.: A J FLAG
Tech. Officer: GSFC/S SAMADI, GSFC/E MASUOKA
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 5 133 UNIVERSITY OF MARYLAND – COLLEGE PARK **5432**
SATELLITE REMOTE SENSING METHODS FOR TERRESTRIAL B IOPHYSICAL MONITORING ANDMODELING
02/22/1996 – 05/31/1998 FY97: $214,221 Total: $356,875
Prin. Invest.: S GOWARD, R DUBAYAH, J G TOWNSEND
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 11 – ASTRONOMY

NCC 5 139 UNIVERSITY OF MARYLAND – COLLEGE PARK **5433**
MCTP SUMMER INTERNS AT NASA WALLOPS FLIGHT FACILITY
06/03/1996 – 12/31/1996 FY97: $0 Total: $5,270
Prin. Invest.: K LANGFORD
Tech. Officer: GSFC/L C ROSSI
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 5 144 UNIVERSITY OF MARYLAND – COLLEGE PARK **5434**
CITY LIGHTS DATA FOR THE MIDDLE EAST: DATA REGISTR ATION AND ANALYSIS (NO COST TIME EXTENSION)
07/16/1996 – 07/31/1997 FY97: $0 Total: $25,926
Prin. Invest.: W LAWRENCE
Tech. Officer: GSFC/M L IMHOFF
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 5 150 UNIVERSITY OF MARYLAND – COLLEGE PARK **5435**
GRAND CHALLENGE APPLICATIONS
09/04/1996 – 09/03/1999 FY97: $180,000 Total: $642,000
Prin. Invest.: P LYSTER
Tech. Officer: GSFC/J R FISCHER
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NCC 5 170 UNIVERSITY OF MARYLAND – COLLEGE PARK **5436**
EVALUATION OF SOFTWARE ENGINEERING METHODOLOGIES
11/20/1996 – 10/31/1997 FY97: $447,300 Total: $447,300
Prin. Invest.: V R BASILI, M V ZELKOWITZ
Tech. Officer: GSFC/R S PAJERSKI, GSFC/S E GREEN
CASE Category: 22 – COMPUTER SCIENCE

NCC 5 180 UNIVERSITY OF MARYLAND – COLLEGE PARK **5437**
THIS GRANT PROVIDES POST–DOC SUPPORT, FELLOWSHIPS, LABORATORY FOR HIGH ENERGY ASTROPHYSICS
02/06/1997 – 01/31/1998 FY97: $1,466,220 Total: $1,466,220
Prin. Invest.: J D TRASCO
Tech. Officer: GSFC/A HARDING
CASE Category: 11 – ASTRONOMY

NCC 5 190 UNIVERSITY OF MARYLAND – COLLEGE PARK **5438**
SUPPORT OF THE EARTH SYSTEM SCIENCE INTERDISCIPLIN
04/04/1997 – 03/31/1999 FY97: $600,000 Total: $600,000
Prin. Invest.: D TOWNSHEND
Tech. Officer: GSFC/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 5 216 UNIVERSITY OF MARYLAND – COLLEGE PARK **5439**
SUMMER INSTIT. ON ATMOSPHERIC AND HYDROSPHERIC SCI
07/15/1997 – 04/30/1998 FY97: $93,382 Total: $93,382
Prin. Invest.: F BAER
Tech. Officer: GSFC/R HARTLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 5 227 UNIVERSITY OF MARYLAND – COLLEGE PARK **5440**
COMMERCIAL SATELLITE SYSTEMS FOR HIGH DATA RATE CO PLICATIONS TO THE INTERNATIONAL SPACE STATION AND
08/19/1997 – 10/31/1997 FY97: $297,852 Total: $297,852
Prin. Invest.: D S BARAS
Tech. Officer: GSFC/V CEVENINI
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 5 238 UNIVERSITY OF MARYLAND – COLLEGE PARK **5441**
COOPERATIVE RESEARCH AGREEMENT FOR SPACE LASER RES MD, A. JAMES CLARK SCHOOLOF ENGINEERING & NASA/G
09/18/1997 – 08/31/2000 FY97: $150,000 Total: $150,000
Prin. Invest.: R AFZAL
Tech. Officer: GSFC/R AFZAL
CASE Category: 49 – ENGINEERING, OTHER

NCC 8 70 UNIVERSITY OF MARYLAND – COLLEGE PARK **5442**
BATSE STUDIES
03/13/1995 – 10/31/1997 FY97: $0 Total: $35,964
Prin. Invest.: I M MITROFANOV, R SAGDEEV
Tech. Officer: MSFC/G J FISHMAN
CASE Category: 11 – ASTRONOMY

NCCW 38 UNIVERSITY OF MARYLAND – COLLEGE PARK **5443**
EVA INSTRUMENTATION FLIGHT EXPERIMENT
03/08/1994 – 04/30/1997 FY97: $0 Total: $199,831
Prin. Invest.: D L AKIN, B SORENSON
Tech. Officer: HQ/R A GUALDONI
CASE Category: 41 – AERONAUTICAL ENGNR

NCCW 39 UNIVERSITY OF MARYLAND – COLLEGE PARK **5444**
NCCW-0039/B UNIV. OF MD COLLEGE PK "FLIGHT TESTING OF A WATER CAPILLARY PUMPED LOOP" 12-MONTH AWARD
03/30/1994 – 08/31/1997 FY97: $0 Total: $156,796
Prin. Invest.: K R KOLOS
Tech. Officer: HQ/R GUALDONI
CASE Category: 13 – PHYSICS

NCCW 69 UNIVERSITY OF MARYLAND – COLLEGE PARK **5445**
COOPERATIVE PROGRAM IN U.S. RUSSIAN SPACE TECHNOLO GY
01/11/1995 – 06/30/1997 FY97: $215,813 Total: $885,180
Prin. Invest.: R SAGDEEV
Tech. Officer: HQ/G LESANE
CASE Category: 59 – LIFE SCIENCE, OTHER

NCCW 80 UNIVERSITY OF MARYLAND – COLLEGE PARK **5446**
DEVELOPMENT OF THE RANGER TELEROBOTIC FLIGHT EXPER IMENT
08/16/1995 – 07/30/1998 FY97: $0 Total: $4,221,478
Prin. Invest.: D L AKIN
Tech. Officer: HQ/D LAVERY
CASE Category: 42 – ASTRONAUTICAL ENGR

NGT 30168 UNIVERSITY OF MARYLAND – COLLEGE PARK **5447**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/23/1993 – 08/31/1996 FY97: $0 Total: $44,000
Prin. Invest.: S D PRINCE
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30242 UNIVERSITY OF MARYLAND – COLLEGE PARK **5448**
GLOBAL CHANGE FELLOWSHIP AWARD
09/22/1994 – 08/31/1996 FY97: $0 Total: $44,000
Prin. Invest.: H SOMET
Tech. Officer: HQ/E LUCIER, HQ/G ASRAR
CASE Category: 22 – COMPUTER SCIENCE

NGT 30276 UNIVERSITY OF MARYLAND – COLLEGE PARK **5449**
GLOBAL CHANGE FELLOWSHIP AWARD
09/22/1994 – 08/31/1998 FY97: $0 Total: $66,000
Prin. Invest.: S NIGAM
Tech. Officer: HQ/J S THEON, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30331 UNIVERSITY OF MARYLAND – COLLEGE PARK **5450**
GLOBAL CHANGE FELLOWSHIP PROGRAM
09/05/1995 – 08/31/1998 FY97: $0 Total: $22,000
Prin. Invest.: J TOWNSHEND
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30332 UNIVERSITY OF MARYLAND – COLLEGE PARK **5451**
GLOBAL CHANGE FELLOWSHIP
08/31/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: B KEDEM
Tech. Officer: HQ/G ASRAR, HQ/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 50926 UNIVERSITY OF MARYLAND – COLLEGE PARK **5452**
NGT-50926/UNIV MARYLAND/GRADUATE STUDENT RESEARCHERS PROGRAM
06/15/1992 – 06/30/1996 FY97: $0 Total: $88,000
Prin. Invest.: K E HEROLD
Tech. Officer: GSFC/G SOFFEN
CASE Category: 46 – MECHANICAL ENGR

NGT 50951 UNIVERSITY OF MARYLAND – COLLEGE PARK **5453**
NGT-50951/UNIV MARYLAND @ COLLEGE PARK/GRADUATE STUDENT RESEARCHERS PROGRAM
08/14/1992 – 08/31/1996 FY97: $0 Total: $88,000
Prin. Invest.: J JAJA
Tech. Officer: GSFC/G SOFFEN
CASE Category: 45 – ELECTRICAL ENGR

NGT 51017 UNIVERSITY OF MARYLAND – COLLEGE PARK **5454**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/13/1993 – 12/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: M DAGENAIS
Tech. Officer: GSFC/G SOFFEN
CASE Category: 45 – ELECTRICAL ENGR

NGT 51096 UNIVERSITY OF MARYLAND – COLLEGE PARK **5455**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
07/07/1993 – 10/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: R MUSHOTZKY
Tech. Officer: GSFC/M BURRELL
CASE Category: 11 – ASTRONOMY

NGT 51181 UNIVERSITY OF MARYLAND – COLLEGE PARK **5456**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/29/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: L W HARDING
Tech. Officer: GSFC/M BURRELL
CASE Category: 33 – OCEANOGRAPHY

NGT 51391 UNIVERSITY OF MARYLAND – COLLEGE PARK **5457**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/28/1995 – 08/14/1998 FY97: $0 Total: $44,000
Prin. Invest.: S W LEE
Tech. Officer: HQ/D GLASCO
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 70321 UNIVERSITY OF MARYLAND – COLLEGE PARK **5458**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
06/29/1993 – 07/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: M C RABENHORST
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 1 52158 UNIVERSITY OF MARYLAND – COLLEGE PARK **5459**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
05/23/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J W SABEAN
Tech. Officer: LARC/G Y ANDERSON
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 2 52214 UNIVERSITY OF MARYLAND – COLLEGE PARK **5460**
SHAPE MEMORY ALLOY ACTURATION FOR ACTIVE TUNING OF COMPOSITE SHAFTS
07/17/1996 – 08/31/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: I CHOPRA
Tech. Officer: ARC/K Q NGYUEN
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 1 UNIVERSITY OF MARYLAND – COLLEGE PARK **5461**
X-RAY OBSERVATIONS OF GALACTIC NUCLEI
06/22/1995 – 06/30/1997 FY97: $22,000 Total: $66,000
Prin. Invest.: J A GOODMAN
Tech. Officer: GSFC/G A SOFFEN, GSFC/P J SERLEMITSOS
CASE Category: 11 – ASTRONOMY

NGT 5 2 UNIVERSITY OF MARYLAND – COLLEGE PARK **5462**
EXAMINING ABUNDANCE ANOMALIES IN GLOBULAR CLUSTER STARS
06/22/1995 – 06/30/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: R A BELL
Tech. Officer: GSFC/G A SOFFEN, GSFC/A V SWEIGART
CASE Category: 11 – ASTRONOMY

NGT 5 13 UNIVERSITY OF MARYLAND – COLLEGE PARK **5463**
1996 ASSE – NASA SUMMER FACULTY FELLOWSHIP PROGRAM
03/26/1996 – 03/31/1998 FY97: $0 Total: $452,000
Prin. Invest.: H R BOROSON
Tech. Officer: GSFC/G A SOFFEN, GSFC/M S BURRELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 15 UNIVERSITY OF MARYLAND – COLLEGE PARK **5464**
DEVELOPMENT OF A REDESIGNED MINI POWER TOOL FOR EX TRAVEHICULAR ACTIVITY
07/15/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: D AKIN
Tech. Officer: GSFC/G A SOFFEN, GSFC/J VRANISH
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 50 UNIVERSITY OF MARYLAND – COLLEGE PARK **5465**
DEVELOPMENT OF A RATCHETLESS WRENCH FOR EXTRAVEHIC
06/23/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D L AKIN
Tech. Officer: GSFC/M S BURRELL
CASE Category: 46 – MECHANICAL ENGR

NGT 5 52 UNIVERSITY OF MARYLAND – COLLEGE PARK **5466**
GSRP TRAINING GRANT: "REGIONAL SCALE MODELING" ST ERIC ALTSHULER; GSFC TECHNICAL ADVISOR: WEI-KUO T
06/23/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D ZHANG
Tech. Officer: GSFC/G SOFFEN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 5 30021 UNIVERSITY OF MARYLAND – COLLEGE PARK **5467**
ROLE OF MOUNTAINS IN THE GENERATION OF SEASONAL CL
10/14/1996 – 08/31/1997 FY97: $44,000 Total: $44,000
Prin. Invest.: S NIGAM
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30087 UNIVERSITY OF MARYLAND – COLLEGE PARK **5468**
ON THE ESTIMATION OF AREA AVERAGE RAIN RATE BASED EARTH SYSTEM SCIENCE FELLOWSHIP PROGRAM/PFEIFFER
09/09/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: B KEDEM
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50083 UNIVERSITY OF MARYLAND – COLLEGE PARK **5469**
CHEMISTRY IN COMETS HALE–BOPP AND HYAKUTAKE
09/05/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: A HEARN
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 41 – AERONAUTICAL ENGNR

NSG 5123 UNIVERSITY OF MARYLAND – COLLEGE PARK **5470**
EVALUATION OF SOFTWARE ENGR DISCIPLINES
08/01/1976 – 12/31/1996 FY97: $221,412 Total: $3,754,292
Prin. Invest.: V R BASILI, D H ROMBACH, M V ZELKOWITZ
Tech. Officer: GSFC/R PAJERSKI
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2765 UNIVERSITY OF MARYLAND – EASTERN SHORE **5471**
UNIVERSITY OF MARYLAND EASTERN SHORE ENGINEERING PROGRAM
10/26/1994 – 07/31/1997 FY97: $51,855 Total: $148,185
Prin. Invest.: R MULLER, NONE
Tech. Officer: GSFC/D MENCHEN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 1593 UNIVERSITY OF MARYLAND BALTIMORE COUNTY **5472**
LABORATORY SPECTROSCOPY TO SUPPORT THE AIRS SOUNDER
05/20/1991 – 06/30/1996 FY97: $0 Total: $200,000
Prin. Invest.: L L STROW
Tech. Officer: GSFC/J SUSSKIND
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2194 UNIVERSITY OF MARYLAND BALTIMORE COUNTY **5473**
ADAPTIVE PHASE ALIGNMENT OF SYNTHETIC APERTURES FO R COHERENT OPTICAL COMMUNICATIONS
02/09/1993 – 02/14/1997 FY97: $0 Total: $223,100
Prin. Invest.: J M MORRIS
Tech. Officer: GSFC/B D SEERY
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 2751 UNIVERSITY OF MARYLAND BALTIMORE COUNTY **5474**
OUTREACH PROGRAM FOR FEDERAL LABS
10/07/1994 – 06/30/1997 FY97: $0 Total: $303,325
Prin. Invest.: HIABROWSKI
Tech. Officer: GSFC/D MENCHEN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 2855 UNIVERSITY OF MARYLAND BALTIMORE COUNTY **5475**
AN INTEGRATED ADAPTIVE INTERFACE SYSTEM TO SUPPORT MULTI-AGENT BASED MODELS
12/29/1994 – 09/30/1996 FY97: $0 Total: $80,701
Prin. Invest.: H H EMVRIAN
Tech. Officer: GSFC/W F TRUSZKOWSKI
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2893 UNIVERSITY OF MARYLAND BALTIMORE COUNTY **5476**
INTERACTIVE STEREO VOLUME VISUALIZATION FOR SPACE PHYSICS DATA.
02/17/1995 – 12/31/1997 FY97: $0 Total: $69,571
Prin. Invest.: D S EBERT
Tech. Officer: GSFC/D A ROBERTS
CASE Category: 22 – COMPUTER SCIENCE

NAGW 4392 UNIVERSITY OF MARYLAND BALTIMORE COUNTY **5477**
MOLECULAR DAMAGE OF HUMAN CELLS BY X-RAYS AND NEUT RONS
04/17/1995 – 04/30/1997 FY97: $0 Total: $450,559
Prin. Invest.: E K BALCER-KUBICZEK
Tech. Officer: HQ/F M SULZMAN, HQ/V THORNE
CASE Category: 56 – MEDICL

NAGW 4394 UNIVERSITY OF MARYLAND BALTIMORE COUNTY **5478**
EFFECTS OF EXPOSURE TO HEAVY PARTICLES
04/04/1995 – 06/30/1997 FY97: $0 Total: $58,813
Prin. Invest.: B M RABIN
Tech. Officer: HQ/F M SULZMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4419 UNIVERSITY OF MARYLAND BALTIMORE COUNTY **5479**
RESEARCH AND DEVELOPMENT FOR REMOTE SENSING APPLIC ATIONS SUPPORTING A NATIONAL REMOTE SENSING CORE
04/19/1995 – 04/30/1997 FY97: $0 Total: $287,100
Prin. Invest.: T FOREMAN
Tech. Officer: HQ/M A PINE, HQ/L A OSTENDORF
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 5 31378 UNIVERSITY OF MARYLAND BALTIMORE COUNTY **5480**
EOS EXECUTION PHASE
12/16/1991 – 12/14/2001 FY97: $236,000 Total: $1,288,000
Prin. Invest.: L L STROW
Tech. Officer: GSFC/E R KREINS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 5 91 UNIVERSITY OF MARYLAND BALTIMORE COUNTY **5481**
THE GSFC/UMBC RESEARCH FELLOWS PROGRAM
06/05/1995 – 05/31/1997 FY97: $0 Total: $201,650
Prin. Invest.: C WEIDEMANN
Tech. Officer: GSFC/G A SOFFEN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 5 92 UNIVERSITY OF MARYLAND BALTIMORE COUNTY **5482**
JOINT CENTER FOR EARTH SYSTEMS TECHNOLOGY
06/27/1995 – 06/30/1998 FY97: $2,507,526 Total: $3,257,389
Prin. Invest.: S H MELFI
Tech. Officer: GSFC/R E HARTLE, GSFC/C E COTE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 5 220 UNIVERSITY OF MARYLAND BALTIMORE COUNTY **5483**
DESKTOP STEREOSCOPIC VISUALIZATION AND ANALYSIS OF MULTI–DIMENSIONAL DATA SETS
08/19/1997 – 07/31/1998 FY97: $68,467 Total: $68,467
Prin. Invest.: D S EBERT
Tech. Officer: GSFC/A ROBERTS
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NGT 90155 UNIVERSITY OF MARYLAND BALTIMORE COUNTY **5484**
OUTREACH PROGRAM FOR FEDERAL LABS
01/13/1993 – 09/30/1996 FY97: $0 Total: $342,700
Prin. Invest.: C WOOLSTON
Tech. Officer: HQ/M MATEU
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90260 UNIVERSITY OF MARYLAND BALTIMORE COUNTY **5485**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
12/19/1994 – 08/14/1996 FY97: $0 Total: $24,000
Prin. Invest.: E BAKER
Tech. Officer: HQ/D K RUSSELL
CASE Category: 22 – COMPUTER SCIENCE

NGT 5 48 UNIVERSITY OF MARYLAND BALTIMORE COUNTY **5486**
HOLOGRAPHIC STORAGE USING PHOTOREFRACTIVE POLYMERS
06/23/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: L M HAYDEN
Tech. Officer: GSFC/M S BURRELL
CASE Category: 22 – COMPUTER SCIENCE

NGT 5 90049 UNIVERSITY OF MARYLAND BALTIMORE COUNTY **5487**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
02/12/1997 – 08/14/1998 FY97: $48,000 Total: $48,000
Prin. Invest.: R KAIL
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 46 – MECHANICAL ENGR

NAG 5 3300 WESTERN MARYLAND COLLEGE **5488**
ATMOSPHERIC LIDAR: DEVELOPMENT OF A PROTOTYPE HOLO GRAPHIC ATMOSPHERIC SCANNER FOR ENVIRONMENT . . .
07/15/1996 – 07/31/1996 FY97: $0 Total: $3,000
Prin. Invest.: D GUERRA
Tech. Officer: GSFC/G SCHWEMMES
CASE Category: 11 – ASTRONOMY

NCC 5 194 WESTERN MARYLAND COLLEGE **5489**
GROUND–BASED TESTING OF A PROTOTYPE HOLOGRAPHIC AT FOR ENVIRONMENTAL REMOTE SENSING (PHASERS)
05/15/1997 – 04/30/1998 FY97: $15,000 Total: $15,000
Prin. Invest.: D GUERRA
Tech. Officer: GSFC/G SCHWEMMER
CASE Category: 31 – ATMOSPHERIC SCIENCE

MASSACHUSETTS

NAG 1 955 BOSTON COLLEGE **5490**
ENHANCEMENT OF SOLID–STATE INFRARED LASER OUTPUT VIA INTER-IONIC ENERGY TRANSFER
01/17/1989 – 04/30/1998 FY97: $67,500 Total: $331,563
Prin. Invest.: B DIBARTOLO
Tech. Officer: LARC/P BROCKMAN
CASE Category: 13 – PHYSICS

NAG 5 4946 BOSTON COLLEGE **5491**
CHANGES IN MAGNETIC TOPOLOGY ASSOCIATED WITH CORON OBSERVED BY LASCO
06/24/1997 – 06/14/1998 FY97: $49,998 Total: $49,998
Prin. Invest.: D F WEBB
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NAG 8 1304 BOSTON COLLEGE **5492**
R/S FIBRIL FORMATION BY ALZHEIMER'S DISEASE AMYLOID IN MICROGRAVITY
10/24/1996 – 10/23/1997 FY97: $153,272 Total: $153,272
Prin. Invest.: D KIRSCHNER
Tech. Officer: MSFC/L KARR, MSFC/D C CARTER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4578 BOSTON COLLEGE **5493**
STUDY OF THE SOURCE REGIONS OF CORONAL MASS EJECTI ONS USING YOHKOH SXT DATA
06/30/1995 – 04/30/1996 FY97: $0 Total: $46,307
Prin. Invest.: D F WEBB
Tech. Officer: HQ/W J WAGNER, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 5052 BOSTON COLLEGE **5494**
STUDY OF DISCONNECTION OF MAGNETIC FIELDS ASSOCIAT ED WITH CORONAL MASS EJECTIONS
05/17/1996 – 04/30/1997 FY97: –$1,000 Total: $48,932
Prin. Invest.: D F WEBB, NONE
Tech. Officer: HQ/W J WAGNER, HQ/G L WITHBROE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 50996 BOSTON COLLEGE **5495**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/20/1992 – 03/31/1996 FY97: –$5 Total: $65,995
Prin. Invest.: R L CORNVILLANN
Tech. Officer: HQ/J K ALEXANDER
CASE Category: 13 – PHYSICS

NAG 1 1580 BOSTON UNIVERSITY **5496**
SONIC BOOMS IN THE TURBULENT ATMOSPHERE
02/18/1994 – 02/16/1997 FY97: $0 Total: $138,454
Prin. Invest.: A D PIERCE
Tech. Officer: LARC/G L MCANINCH
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1688 BOSTON UNIVERSITY **5497**
COMPUTATIONAL AEROACOUSTICS OF FLUID–ELASTIC STRUCTURE INTERACTIONS — MY 1/2
02/16/1995 – 09/30/1997 FY97: $12,380 Total: $75,800
Prin. Invest.: M S HOWE
Tech. Officer: LARC/J C HARDIN
CASE Category: 49 – ENGINEERING, OTHER

NAG 1 1712 BOSTON UNIVERSITY **5498**
TESTING AND IMPLEMENTATION OF ADVANCED REYNOLDS ST RESS MODELS
03/20/1995 – 03/19/1997 FY97: $0 Total: $17,527
Prin. Invest.: C G SPEZIALE
Tech. Officer: LARC/T B GATSKI
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 1054 BOSTON UNIVERSITY **5499**
IMPP THE FAR–INFRARED IMAGING PHOTOMETER AND POLAR IMETER DESIGN STUDY
06/17/1996 – 08/31/1997 FY97: $0 Total: $65,209
Prin. Invest.: D P CLEMENS
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 3 1844 BOSTON UNIVERSITY **5500**
DETERMINATION OF INTERFACIAL RHEOLOGICAL PROPERTIE S THROUGH MICROGRAVITY OSCILLATIONS OF BUBBLES DR
05/03/1996 – 05/31/2000 FY97: $48,000 Total: $116,000
Prin. Invest.: A NADIM
Tech. Officer: LERC/B SINGH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 690 BOSTON UNIVERSITY **5501**
A SOUNDING ROCKET PROGRAM IN EXTREME AND FAR UV INTERFER-OMETRY
04/29/1992 – 06/30/1998 FY97: $270,000 Total: $1,709,500
Prin. Invest.: S CHAKRABARTI
Tech. Officer: GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 1997 BOSTON UNIVERSITY **5502**
LOW MASS STARS IN BOK GLOBULES
06/12/1992 – 06/14/1997 FY97: $0 Total: $117,148
Prin. Invest.: D P CLEMENS
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2266 BOSTON UNIVERSITY **5503**
CLUSTER RAPID IMAGING ELECTRON SPECTROMETER EFFORT
05/07/1993 – 12/30/1997 FY97: $102,125 Total: $598,108
Prin. Invest.: T A FRITZ
Tech. Officer: GSFC/M L GOLDSTEIN
CASE Category: 13 – PHYSICS

NAG 5 2508 BOSTON UNIVERSITY **5504**
INVESTIGATION OF HIGH ENERGY GAMMA–RAY EMISSION FR OM AGN'S: A DEEP EXPOSURE AT HIGH GALACTIC...
02/10/1994 – 02/28/1997 FY97: $0 Total: $209,038
Prin. Invest.: A P MARSCHER, R C HARTMAN
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2578 BOSTON UNIVERSITY **5505**
GGS POLAR CAMMICE FLIGHT PREPARATIONA ND I&T PHASE
04/14/1994 – 12/31/1997 FY97: $737,000 Total: $1,511,354
Prin. Invest.: T A FRITZ
Tech. Officer: GSFC/M H ACUNA
CASE Category: 13 – PHYSICS

NAG 5 2643 BOSTON UNIVERSITY **5506**
HIRES DUST IMAGING OF THE NGC 6334 COMPLEX
07/05/1994 – 07/14/1997 FY97: $0 Total: $70,600
Prin. Invest.: J M JACKSON
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3291 BOSTON UNIVERSITY **5507**
MULTIWAVEBAND MONITORING OF THE BRIGHT, VIOLENTLY VARIABLE QUASAR 3C 454.3
07/17/1996 – 11/30/1997 FY97: $0 Total: $30,894
Prin. Invest.: A MARSCHER
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3337 BOSTON UNIVERSITY **5508**
BLOCK GRANT FOR ISO FAR–INFRARED SPACE STUDIES
08/09/1996 – 08/14/1997 FY97: $0 Total: $43,500
Prin. Invest.: D P CLEMENS
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3384 BOSTON UNIVERSITY **5509**
TOWARD A REFINED UNDERSTANDING OF THE HIGH-ENERGY GAMMA-RAY UNIVERSE
08/28/1996 – 08/31/1997 FY97: $0 Total: $70,000
Prin. Invest.: J R MATTOX
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3439 BOSTON UNIVERSITY **5510**
MONITORING CHANGE IN TEMPERATE CONIFEROUS FOREST E COSYS-TEMS
10/07/1996 – 10/31/1997 FY97: $204,114 Total: $204,114
Prin. Invest.: C WOODCOCK
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3457 BOSTON UNIVERSITY **5511**
MODELING AND REMOTE SENSING OF RADIATN ENERGY INTE RACTIONS AND PHYSIOLOGICAL FUNTIONING IN
10/10/1996 – 10/31/1997 FY97: $49,845 Total: $49,845
Prin. Invest.: R B MYNENI
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3458 BOSTON UNIVERSITY **5512**
PHOTOSYNTHETICALLY ACTIVE RADIATION IN THE CURCUMP OLAR BOREAL FOREST BIOME: ANALYSIS OF AN 11-YEAR
10/28/1996 – 10/31/1997 FY97: $39,746 Total: $39,746
Prin. Invest.: D DYE
Tech. Officer: GSFC/B N HOLBEN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3748 BOSTON UNIVERSITY **5513**
THE MAGNETOSPHERIC MAPPING MISSION
03/10/1997 – 03/14/1999 FY97: $200,000 Total: $200,000
Prin. Invest.: D E SPENCE
Tech. Officer: GSFC/R HOWARD
CASE Category: 13 – PHYSICS

NAG 5 3806 BOSTON UNIVERSITY **5514**
TIMING THE GEMINGA PULSAR WITH HIGH-ENERGY GAMMA R A MULTI-WAVELENGTH STUDY OF THE GAMMA-RAY BLAZER P
12/13/1996 – 12/14/1997 FY97: $36,000 Total: $36,000
Prin. Invest.: J R MATTOX
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3829 BOSTON UNIVERSITY **5515**
AN EXTENDED OBSERVATION OF BLAZAR 3C 279
02/13/1997 – 02/14/1998 FY97: $35,000 Total: $35,000
Prin. Invest.: A P MARSCHER
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3830 BOSTON UNIVERSITY **5516**
A SEARCH FOR PULSED 2-200 KEV EMISSION FROM GEMING
02/11/1997 – 02/14/1998 FY97: $11,000 Total: $11,000
Prin. Invest.: J R MATTOX
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3839 BOSTON UNIVERSITY **5517**
FREQUENCY STRATIFICATION OF THE NONTHERMAL EMISSIO
02/24/1997 – 02/28/1998 FY97: $96,900 Total: $96,900
Prin. Invest.: A P MARSCHER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3868 BOSTON UNIVERSITY **5518**
CRRES FIELD AND PLASMA DATA
01/30/1997 – 01/31/1998 FY97: $12,789 Total: $12,789
Prin. Invest.: W HUGHES
Tech. Officer: GSFC/J WILLETT
CASE Category: 13 – PHYSICS

NAG 5 3991 BOSTON UNIVERSITY **5519**
VITAMIN D RDA FROM SUPPLEMENT OR LIGHT
02/26/1997 – 02/14/1998 FY97: $197,508 Total: $197,508
Prin. Invest.: M F HOLICK
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 3999 BOSTON UNIVERSITY **5520**
A SILICON ANODE DETECTOR WITH INTEGRATED ELECTRONI
03/06/1997 – 02/28/1998 FY97: $160,000 Total: $160,000
Prin. Invest.: D CHAKRABARTI
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 4245 BOSTON UNIVERSITY **5521**
MONITORING OF TWO BLAZARS WITH FREQUENCY-SIMULTANE MULTIWA-VEBAND MONITORING OF THE PROMINENT BLAZER
04/07/1997 – 04/14/1998 FY97: $38,979 Total: $38,979
Prin. Invest.: A MARSCHER
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4246 BOSTON UNIVERSITY **5522**
USE OF ENERGETIC NEUTRAL ATOMS AS DIAGNOSTICS OF M PRO-CESSES
03/26/1997 – 04/30/1998 FY97: $51,500 Total: $51,500
Prin. Invest.: D MENDILLO
Tech. Officer: GSFC/J GREBOWSKY
CASE Category: 13 – PHYSICS

NAG 5 4247 BOSTON UNIVERSITY **5523**
GLOBAL MAGNETIC GEOMETRY OF THE OPEN MAGNETOSPHERE ORI-ENTATIONS
03/26/1997 – 04/30/1998 FY97: $73,655 Total: $73,655
Prin. Invest.: D L SISCOE
Tech. Officer: GSFC/J GREBOWSKY
CASE Category: 13 – PHYSICS

NAG 5 4273 BOSTON UNIVERSITY **5524**
SEPARATING SPATIAL AND TEMPORAL VARIATIONS OF THE NEARLY COLOCATED SATELLITES
04/04/1997 – 04/30/1998 FY97: $65,680 Total: $65,680
Prin. Invest.: D E SPENCE
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 4426 BOSTON UNIVERSITY **5525**
CONTINUED STUDIES OF OUTER SOLAR SYSTEM ATMOSPHERE
04/17/1997 – 08/31/1998 FY97: $85,000 Total: $85,000
Prin. Invest.: D V YELLE
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4660 BOSTON UNIVERSITY **5526**
TRANSIENT FLOWS IN THE MAGNETOSPHERIC CUSP: GROUN CORRELATION
06/05/1997 – 05/31/1998 FY97: $70,000 Total: $70,000
Prin. Invest.: D HUGHES
Tech. Officer: GSFC/J GREBOWSKY
CASE Category: 13 – PHYSICS

NAG 5 4682 BOSTON UNIVERSITY **5527**
REMOTE SENSING OF MAGNETOSPHERIC STRUCTURE USING (PARTICLE AND FIELD DATA
06/10/1997 – 05/31/1998 FY97: $42,025 Total: $42,025
Prin. Invest.: D E SPENCE
Tech. Officer: GSFC/J GREBOWSKY
CASE Category: 13 – PHYSICS

NAG 5 4707 BOSTON UNIVERSITY **5528**
USE OF NASA'S GLOBAL POSITIONING SYSTEM (GPS) MONI STUDIES OF IONOSPHERIC STRUCTURE AND VARIABILITY
06/11/1997 – 05/31/1998 FY97: $78,000 Total: $78,000
Prin. Invest.: D MENDILLO
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 4708 BOSTON UNIVERSITY **5529**
MAGNETIC TOPOLOGY OF HELIOSPHERIC STRUCTURES
06/23/1997 – 03/31/1998 FY97: $54,000 Total: $54,000
Prin. Invest.: D CROOKER
Tech. Officer: GSFC/M FORMAN
CASE Category: 11 – ASTRONOMY

NAG 5 4850 BOSTON UNIVERSITY **5530**
POLAR-WIDE GEOPHYSICAL PRODUCTS DERIVED FROM AVHRR
07/25/1997 – 06/30/1998 FY97: $11,073 Total: $11,073
Prin. Invest.: D KEY
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4903 BOSTON UNIVERSITY **5531**
DOCUMENTING, UNDERSTANDING, AND PRECDICTING THE AG RADIATION FLUX FOR SHEBA
06/20/1997 – 06/14/1998 FY97: $42,115 Total: $42,115
Prin. Invest.: D R KEY
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4922 BOSTON UNIVERSITY **5532**
SUPPORT FOR INTERNATIONAL CONFERENCE ON STRONGLY C S
07/07/1997 – 05/31/1998 FY97: $6,956 Total: $6,956
Prin. Invest.: P J KALMAN
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 4991 BOSTON UNIVERSITY **5533**
A NEW SCIENTIFIC USE OF TOTAL ECLIPSES OF THE MOON GENERATION AND LOSS OF ATMOSPHERES PRIMITIVE BODI
06/27/1997 – 06/30/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: D MENDILLO
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 5137 BOSTON UNIVERSITY **5534**
SPECTRE: STUDENT-RUN PROGRAM FOR EXOATMOSPHERIC COLLECTING TECHNOLOGIES & ROCKET EXPERIMENTS
04/14/1997 – 10/15/1999 FY97: $35,000 Total: $35,000
Prin. Invest.: S CHAKRABARTI
Tech. Officer: GSFC/W JOHNSON
CASE Category: 13 – PHYSICS

NAG 5 6065 BOSTON UNIVERSITY **5535**
IDENTIFICATION OF LINKED VEGETATION INDEX AND SST PREDICTION OF PLANT PRODUCTIVITY FROM CLIMATE FORE
07/28/1997 – 06/30/1998 FY97: $30,000 Total: $30,000
Prin. Invest.: R MYNENI
Tech. Officer: GSFC/C TUCKER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6126 BOSTON UNIVERSITY **5536**
EMPIRACAL MODELING OF THE INNER MAGNETOSPHERIC PLA ATIONS TO MAGNETIC EQUILIBRIA STRUCTURE AND FIELS
08/04/1997 – 06/30/1998 FY97: $50,001 Total: $50,001
Prin. Invest.: D SPENCE
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 6214 BOSTON UNIVERSITY **5537**
MODELING AND FORECASTING EFFECTS OF LAND-USE CHANG SOCIOECONOMIC DRIVERS
08/18/1997 – 12/31/1998 FY97: $167,442 Total: $167,442
Prin. Invest.: D K KAUFMANN, NONE
Tech. Officer: GSFC/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6245 BOSTON UNIVERSITY **5538**
A NOVEL POLY-ETALON FABRY-PEROT SPECTROMETER FOR P
08/19/1997 – 07/31/1998 FY97: $117,019 Total: $117,019
Prin. Invest.: D B KERR
Tech. Officer: GSFC/B CAMPBELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 1627 BOSTON UNIVERSITY **5539**
MAGNETOSPHERIC SUBSTORMS
03/13/1989 – 09/30/1997 FY97: $66,000 Total: $477,285
Prin. Invest.: W J HUGHES
Tech. Officer: HQ/M M MELLOTT, HQ/T W PERRY
CASE Category: 13 – PHYSICS

NAGW 2627 BOSTON UNIVERSITY **5540**
NAGW-2627/BOSTON UNIV/CONFIGURATION OF THE NEAR-EA RTH PLASMA SHEET
08/19/1991 – 05/31/1997 FY97: $0 Total: $357,837
Prin. Invest.: G M ERICKSON
Tech. Officer: HQ/M M MELLOTT, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 3953 BOSTON UNIVERSITY **5541**
"STUDIES OF WESTWARD ELECTROJETS AND FIELD-ALIGNED CURRENTS IN THE MAGNETOTAIL DURING SUBSTORMS..."
04/25/1994 – 02/28/1997 FY97: $0 Total: $39,937
Prin. Invest.: H E SPENCE
Tech. Officer: HQ/E C WHIPPLE, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4024 BOSTON UNIVERSITY **5542**
SPIFI THE SOUTH PLE IMAGING FABRY PEROT
05/24/1994 – 09/30/1997 FY97: $0 Total: $103,151
Prin. Invest.: J M JACKSON
Tech. Officer: HQ/L J CAROFF, HQ/L J CAROFF
CASE Category: 11 – ASTRONOMY

NAGW 4488 BOSTON UNIVERSITY **5543**
GLOBAL MAGNETIC GEOMETRY
05/16/1995 – 04/30/1997 FY97: $0 Total: $141,135
Prin. Invest.: G L SISCOE
Tech. Officer: HQ/R A HOFFMAN, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4537 BOSTON UNIVERSITY **5544**
EMPIRICAL MODELING OF THE INNER MAGNETOSPHERIC PLA SMA ENVIRONMENT: APPLICATIONS TO MAGNETIC EQ. ST
06/20/1995 – 06/30/1997 FY97: $0 Total: $68,727
Prin. Invest.: H E SPENCE
Tech. Officer: HQ/R A HOFFMAN, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4571 BOSTON UNIVERSITY **5545**
MAGNETIC TOPOLOGY OF HELIOSPHERIC STRUCTURES
06/08/1995 – 03/31/1998 FY97: $0 Total: $99,000
Prin. Invest.: N U CROOKER
Tech. Officer: HQ/W V JONES, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4622 BOSTON UNIVERSITY **5546**
USE OF ENERGETIC NEUTRAL ATOMS AS DIAGNOSTICS OF M AGNETOSPHERIC PROCESSES
08/02/1995 – 09/30/1997 FY97: $0 Total: $97,900
Prin. Invest.: M MENDILLO
Tech. Officer: HQ/R A HOFFMAN, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4798 BOSTON UNIVERSITY **5547**
ANALYSIS AND INTERPRETATION OF UV SPECTRA FROM THE SL-9 IMPACT SITES
09/22/1995 – 09/30/1997 FY97: $0 Total: $45,000
Prin. Invest.: R YELLE
Tech. Officer: HQ/D BARKER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4801 BOSTON UNIVERSITY **5548**
ARCHIVING OF STP78-1 ECOM DATA ACCESSIBLE BY THE W ORLD WIDE WEB
09/29/1995 – 01/31/1996 FY97: -$6 Total: $15,672
Prin. Invest.: D COTTON
Tech. Officer: HQ/J B WILLETT
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 4917 BOSTON UNIVERSITY **5549**
A NEW SCIENTIFIC USE OF TOTAL ECLIPSES OF THE MOON : STUDIES OF THE GENERATION AND LOSS OF ATMOSPHE
02/05/1996 – 09/30/1997 FY97: $0 Total: $40,000
Prin. Invest.: M MENDILLO
Tech. Officer: HQ/E BARKER, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 4923 BOSTON UNIVERSITY **5550**
CONTINUED STUDIES OF ATMOSPHERIC THERMAL STRUCTURE IN THE OUTER SOLAR SYSTEM
03/07/1996 – 08/30/1997 FY97: $88,579 Total: $173,579
Prin. Invest.: N AVAILABLE
Tech. Officer: HQ/N AVAILABLE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 4936 BOSTON UNIVERSITY **5551**
VITAMIN D RDA FROM SUPPLEMENT OR LIGHT
02/13/1996 – 05/31/1997 FY97: $0 Total: $189,912
Prin. Invest.: M F HOLICK, PH.D.
Tech. Officer: HQ/V SCHNEIDER
CASE Category: 56 – MEDICL

NAGW 5030 BOSTON UNIVERSITY **5552**
IMPLEMENTATION OF THE BOSTON UNIV SPACE PHYSICS AC QUISITION CENTER
04/11/1996 – 09/30/1997 FY97: $0 Total: $15,000
Prin. Invest.: H SPENCE
Tech. Officer: HQ/J B WILLETT
CASE Category: 13 – PHYSICS

NAGW 5103 BOSTON UNIVERSITY **5553**
A NOVEL POLY ETALON FABRY PEROT SPECTROMETER FOR P LANETARY RESEARCH
06/11/1996 – 09/30/1997 FY97: $0 Total: $109,000
Prin. Invest.: R B KERR
Tech. Officer: HQ/T KOSTIUK, HQ/H C BRINTON
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5138 BOSTON UNIVERSITY **5554**
USE OF NASA'S GLOBAL POSITIONING SYSTEM (GPS) MONI TORING NETWORK FOR STUDIES OF IONOSPHERIC STRUCTU
07/31/1996 – 09/30/1997 FY97: $0 Total: $75,000
Prin. Invest.: M MENDILLO
Tech. Officer: HQ/M M MELLOTT, HQ/G L WITHBROE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 5163 BOSTON UNIVERSITY **5555**
RECOVERY OF THE DATA SET ASSOCAITED WITH THE ATS-6 LOW ENERGY PROTON EXPERIMENT
08/23/1996 – 09/30/1997 FY97: $0 Total: $11,725
Prin. Invest.: N AVAILABLE, NONE
Tech. Officer: HQ/J B WILLETT
CASE Category: 13 – PHYSICS

NAGW 5255 BOSTON UNIVERSITY **5556**
THERMAL AND HYDROLOGIC SIGNATURES OF SOIL CONTROLS ON EVAPORATION
11/18/1996 – 12/31/1997 FY97: $148,030 Total: $148,030
Prin. Invest.: G SALVUCCI
Tech. Officer: HQ/G ASRAR, HQ/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 5 31369 BOSTON UNIVERSITY **5557**
MODERATE RESOLUTION IMAGING SPECTROMETER INVESTIGATION – LAND COVER CHANGES
12/30/1991 – 12/14/2001 FY97: $665,000 Total: $2,677,190
Prin. Invest.: W STRAHLER
Tech. Officer: GSFC/H OSEROFF
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 96061 BOSTON UNIVERSITY **5558**
MODIS
09/27/1996 – 07/31/1997 FY97: $353,000 Total: $353,000
Prin. Invest.: R B MYNENI
Tech. Officer: GSFC/D TOLL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 97147 BOSTON UNIVERSITY **5559**
DATA ANALYSIS FOR CEPPAD
02/28/1997 – 09/30/1998 FY97: $214,000 Total: $214,000
Prin. Invest.: H SPENCE
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 11 – ASTRONOMY

NGT 51333 BOSTON UNIVERSITY **5560**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/26/1994 – 12/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: S CHAKRABARTI
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NAG 5 4836 BRANDEIS UNIVERSITY **5561**
MOTOR ADAPTATION TO CORIOLIS AND CONTACT FORCES
07/23/1997 – 04/30/1998 FY97: $200,257 Total: $200,257
Prin. Invest.: J LACKNER
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 6056 BRANDEIS UNIVERSITY **5562**
"ADAPTATION IN ARTIFICIAL GRAVITY ENVIRONMENTS"
07/28/1997 – 08/14/1998 FY97: $265,000 Total: $265,000
Prin. Invest.: J LACKNER
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4374 BRANDEIS UNIVERSITY **5563**
MOTOR ADAPTATION TO CORIOLIS AND CONTACT FORCES
03/31/1995 – 08/14/1997 FY97: $0 Total: $392,170
Prin. Invest.: J R LACKNER
Tech. Officer: HQ/F SULZMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4375 BRANDEIS UNIVERSITY **5564**
ADAPTATION IN ARTIFICIAL GRAVITY ENVIRONMENTS
03/31/1995 – 04/14/1998 FY97: $0 Total: $595,167
Prin. Invest.: J R LACKNER
Tech. Officer: HQ/F SULZMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4733 BRANDEIS UNIVERSITY **5565**
GRAYBIEL LABORATORY ROTATING ROOM RESEARCH FACILITY
09/15/1995 – 08/31/1997 FY97: $0 Total: $504,295
Prin. Invest.: J R LACKNER
Tech. Officer: HQ/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NGT 51078 BRANDEIS UNIVERSITY **5566**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/03/1993 – 06/30/1996 FY97: $0 Total: $66,000
Prin. Invest.: D H ROBERTS
Tech. Officer: HQ/DHOLLAND
CASE Category: 42 – ASTRONAUTICAL ENGR

NGT 51658 BRANDEIS UNIVERSITY **5567**
GRAD STUDENT RESEARCH PROGRAM
08/05/1996 – 07/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: J WARDLE
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 5 50136 BRANDEIS UNIVERSITY **5568**
DOPPLER FACTORS AND PROPER MOTIONS IN SUPERLUMINAL
09/11/1997 – 07/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J F WARDLE
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 1011 BRIDGEWATER STATE COLLEGE **5569**
JOVE
11/19/1993 – 09/30/1997 FY97: $0 Total: $87,000
Prin. Invest.: J SULONOWSKI, R ENRIGHT
Tech. Officer: MSFC/F SIX
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 6046 CLARK UNIVERSITY **5570**
LAND–USE COVER IN THE SOUTHERN YUCATAN PENINSULA R
07/31/1997 – 07/31/1998 FY97: $325,000 Total: $325,000
Prin. Invest.: B TURNER
Tech. Officer: GSFC/A JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30179 CLARK UNIVERSITY **5571**
GLOBAL CHANGE FELLOWSHIP PROGRAM
09/01/1993 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: J R EASTMAN
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30344 CLARK UNIVERSITY **5572**
GLOBAL CHANGE FELLOWSHIP PROGRAM
09/08/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: R E KASPERSON
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30032 CLARK UNIVERSITY **5573**
WEST SIBERIAN PEATLAND DYNAMICS IN RELATION TO THE
10/23/1996 – 08/31/1997 FY97: $44,000 Total: $44,000
Prin. Invest.: S HERWITZ
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30056 CLARK UNIVERSITY **5574**
THIRD YEAR FUNDING: THE PATTERN AND CONDITIONS FO OVER THE HIMALAYAS
09/06/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: R E KASPERSON
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30061 CLARK UNIVERSITY **5575**
DIAGNOSIS OF SPATIAL AND TEMPORAL PATTERNS OF DRY LAND–ATMOSPHERE WATER EXCHANGE IN THE TROPICAL SAV
09/10/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: L LEWIS
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 1212 HAMPSHIRE COLLEGE **5576**
ENERGETIC S–RAY IMAGING SURVEY TELESCOPE
10/06/1995 – 10/01/1997 FY97: $0 Total: $111,209
Prin. Invest.: J E GRINDLAY
Tech. Officer: MSFC/M NEIN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1305 HARVARD UNIVERSITY **5577**
HIGH ALTITUDE AIRCRAFT AND BALLOON–BORNE OBSERVATI ON IN EARTH'S STRATOSPHERE
06/28/1991 – 12/31/1997 FY97: $1,991,799 Total: $12,557,125
Prin. Invest.: J G ANDERSON
Tech. Officer: LARC/L R POOLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1759 HARVARD UNIVERSITY **5578**
THE ORIGIN OF TROPOSPHERIC OZONE OVER THE SOUTH PACIFIC: ANALYSIS OF PEM–TROPIC DATA
09/25/1995 – 09/30/1998 FY97: $307,000 Total: $483,962
Prin. Invest.: D J JACOB, D A LOGAN
Tech. Officer: LARC/J M HOELL, JR, LARC/R J BENDURA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1849 HARVARD UNIVERSITY **5579**
CLOUDS AND WATER VAPOR IN THE CLIMATE SYSTEM: REMOTELY PILOTED AIRCRAFT AND SATELLITES
06/26/1996 – 06/30/1998 FY97: $34,000 Total: $2,123,017
Prin. Invest.: J G ANDERSON, R M GOODY
Tech. Officer: LARC/L R POOLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1909 HARVARD UNIVERSITY **5580**
THREE–DIMENSIONAL STUDY OF THE FACTORS CONTROLLING THE DISTRIBUTION OF OZONE AND RELATED SPECIES IN
04/01/1997 – 03/31/1998 FY97: $225,000 Total: $225,000
Prin. Invest.: D J JACOB
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1969 HARVARD UNIVERSITY **5581**
CORRECTION IN GRANTEE'S NAME
09/12/1997 – 03/11/1998 FY97: $15,000 Total: $15,000
Prin. Invest.: M COSMO, J DAVIS
Tech. Officer: LARC/S JKATZBERG, LARC/J L GARRISON
CASE Category: 13 – PHYSICS

NAG 2 974 HARVARD UNIVERSITY **5582**
STRATOSPHERIC TRACERS OF ATMOSPHERIC TRANSPORT (ST RAT) MISSION SCIENTIST
03/24/1995 – 12/31/1997 FY97: $20,000 Total: $141,690
Prin. Invest.: S C WOFSY
Tech. Officer: ARC/E P CONDON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 1100 HARVARD UNIVERSITY **5583**
PHOTOCHEMISTRY OF THE UPPER TROPOSPHERE & LOWERMOS T STRATOSPHERE AT NORTHERN MIDLATITUDS, & THE....
01/09/1997 – 01/31/1998 FY97: $99,888 Total: $99,888
Prin. Invest.: D J JACOB
Tech. Officer: ARC/E P CONDON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 3 1793 HARVARD UNIVERSITY **5584**
THE EXTENSIONAL OF NON–NEWTONIAN MATERIALS
11/06/1995 – 11/30/2000 FY97: $191,000 Total: $381,000
Prin. Invest.: G H MCKINLEY
Tech. Officer: LERC/F P CHIARAMONTE
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 5 1624 HARVARD UNIVERSITY **5585**
SEARCH FOR NEW LOW LUMINOSITY GLOBULAR CLUSTER X–R AY SOURCES
06/07/1991 – 12/14/1997 FY97: $0 Total: $115,698
Prin. Invest.: J E GRINDLAY
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 1904 HARVARD UNIVERSITY **5586**
OBSERVATIONAL IMPLICATIONS OF MERGERS OF NEUTRON S TAR AND BLACK HOLE BINARIES
02/20/1992 – 12/31/1995 FY97: $0 Total: $112,703
Prin. Invest.: R NARAYAN, T PIRAN
Tech. Officer: GSFC/J NORRIS, GSFC/N GEHRELS
CASE Category: 11 – ASTRONOMY

NAG 5 2253 HARVARD UNIVERSITY **5587**
EDDY CORRELATION FLUX MEASUREMENTS OF C02, 03, AND NOY FOR BOREAS
04/30/1993 – 04/30/1997 FY97: $498,000 Total: $1,186,261
Prin. Invest.: S C WOFSY
Tech. Officer: GSFC/F G HALL, GSFC/P SELLERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2688 HARVARD UNIVERSITY **5588**
ASSESSMENT OF THE EFFECTS OF SUBSONIC AIRCRAFT ON OZONE USING A THREE DIMENSIONAL MODEL
10/07/1994 – 10/14/1997 FY97: $258,000 Total: $768,890
Prin. Invest.: D J JACOB
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2763 HARVARD UNIVERSITY **5589**
BATSE STUDY OF HARD X-RAY EMISSION FROM BURSTERS
10/28/1994 – 01/31/1997 FY97: $0 Total: $115,074
Prin. Invest.: J E GRINDLAY
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2958 HARVARD UNIVERSITY **5590**
UTILIZATION OF THE STRAT DATA FOR THE VALIDATION OF ASSESSMENT MODELS
06/07/1995 – 06/14/1997 FY97: $0 Total: $80,000
Prin. Invest.: M B MCELROY
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2971 HARVARD UNIVERSITY **5591**
INVESTIGATIONS OF THE EARTH'S MAIN MAGNETIC FIELD AND THE INTERIOR OF THE EARTH
06/16/1995 – 06/30/1998 FY97: $70,288 Total: $150,288
Prin. Invest.: J BLOXAM
Tech. Officer: GSFC/P TAYLOR
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3020 HARVARD UNIVERSITY **5592**
SPECTROSCOPIC DATA FOR AN ASTRONOMY DATABASE LINE EMISSION
07/21/1995 – 06/30/1997 FY97: $0 Total: $40,000
Prin. Invest.: W H PARKINSON
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3085 HARVARD UNIVERSITY **5593**
GAS DYNAMICS AND THE FORMATION OF GALAXIES AND QUARSARS
10/05/1995 – 10/14/1997 FY97: $0 Total: $160,000
Prin. Invest.: A LOEB
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3256 HARVARD UNIVERSITY **5594**
COMPACT OBJECTS AND BINARIES IN GLOBULAR CLUSTERS AND THE GALAXY
07/15/1996 – 09/30/1997 FY97: $0 Total: $68,980
Prin. Invest.: J GRINDLAY
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3298 HARVARD UNIVERSITY **5595**
X-RAY SPECTRAL AND TEMPORAL STUDIES OF THE ULTRA C OMPACT SYSTEM X1916-05
08/09/1996 – 02/14/1998 FY97: $0 Total: $19,600
Prin. Invest.: J GRINDLAY
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3516 HARVARD UNIVERSITY **5596**
A GENERIC MODEL FOR GAMMA RAY BURSTS: THEORY AND D
11/13/1996 – 11/14/1997 FY97: $25,000 Total: $25,000
Prin. Invest.: R NARAYAN
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3553 HARVARD UNIVERSITY **5597**
AN INVESTIGATION OF THE COUPLING BETWEEN TROPOSPHE RIC OZONE, SULFATE AEROSOLS AND CLIMATE.....
12/05/1996 – 12/14/1997 FY97: $337,000 Total: $337,000
Prin. Invest.: D JACOB
Tech. Officer: GSFC/D RIND
CASE Category: 11 – ASTRONOMY

NAG 5 3564 HARVARD UNIVERSITY **5598**
MAPPING MAGNETIC FIELDS IN THE ISM
01/14/1997 – 01/14/1998 FY97: $48,000 Total: $48,000
Prin. Invest.: A GOODMAN, I LUU
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3645 HARVARD UNIVERSITY **5599**
EVOLUTION OF PROTEROZOIC MICROORGANISMS AND ENVIRO
03/05/1997 – 11/30/1997 FY97: $81,510 Total: $81,510
Prin. Invest.: D H KNOLL
Tech. Officer: GSFC/M MEYER
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3695 HARVARD UNIVERSITY **5600**
LINERS & LOW LUMINOSITY AGN IN THE ROSAT DATABASE
07/15/1997 – 07/14/1998 FY97: $68,100 Total: $68,100
Prin. Invest.: M S ELVIS
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3709 HARVARD UNIVERSITY **5601**
DEVELOPMENT OF AN ULTRA SENSITIVE FAR INFRARED REFRIGERATOR INTEGRATED ON A SINGLE CHIP
02/12/1997 – 08/31/1997 FY97: $150,000 Total: $150,000
Prin. Invest.: M NAHUM
Tech. Officer: GSFC/D HOLLAND
CASE Category: 11 – ASTRONOMY

NAG 5 3808 HARVARD UNIVERSITY **5602**
STUDIES OF BATSE TRANSIENTS AND BLACK HOLE X-RAY B HARD X-RAY EMISSION FROM X-RAY BURSTERS $7017.00
12/14/1996 – 10/31/1997 FY97: $21,867 Total: $21,867
Prin. Invest.: J E GRINDLAY
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3890 HARVARD UNIVERSITY **5603**
LONG TERM HARD X-RAY MONITORING OF X-RAY BURSTERS
05/27/1997 – 01/31/1998 FY97: $10,118 Total: $10,118
Prin. Invest.: J E GRINDLAY
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3979 HARVARD UNIVERSITY **5604**
THEORETICAL STUDIES OF ATMOSPHERIC CHEMISTRY AND T STRATOSPHERE
03/05/1997 – 01/31/1998 FY97: $195,000 Total: $195,000
Prin. Invest.: S C WOFSY
Tech. Officer: GSFC/J A KAYE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4053 HARVARD UNIVERSITY **5605**
WHERE DOES THE POWER LAW BREAK IN X-RAY BUSTERS?
03/11/1997 – 03/14/1998 FY97: $23,100 Total: $23,100
Prin. Invest.: J E GRINDLAY
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4062 HARVARD UNIVERSITY **5606**
IS THERE A COSMOLOGICAL CONSTANT?
03/18/1997 – 03/31/1998 FY97: $43,200 Total: $43,200
Prin. Invest.: C S KOCHANEK
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4132 HARVARD UNIVERSITY **5607**
A SEARCH FOR 23RD-MAGNITUDE KUPIER BELT COMETS
03/13/1997 – 05/31/1998 FY97: $35,000 Total: $35,000
Prin. Invest.: D X LUU
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4174 HARVARD UNIVERSITY **5608**
PALEOSOLS AS INDICATORS OF ATMOSPHERIC EVOLUTION
03/24/1997 – 09/30/1997 FY97: $105,101 Total: $105,101
Prin. Invest.: D D HOLLAND
Tech. Officer: GSFC/M A MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 4216 HARVARD UNIVERSITY **5609**
CCD PHOTOMETRY STUDY OF KUIPER BELT OBJECTS
04/09/1997 – 02/28/1998 FY97: $40,028 Total: $40,028
Prin. Invest.: D X LUU
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 4302 HARVARD UNIVERSITY **5610**
CROSS SECTION MEASUREMENTS FOR SOLAR COSMIC RAY ST
04/12/1997 – 06/30/1998 FY97: $65,727 Total: $65,727
Prin. Invest.: D FRANKLIN
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4348 HARVARD UNIVERSITY **5611**
ABSOLUTE TRANSITION PROBABILITIES FOR LINES IN THE ASTROPHYSICAL ATOMS, MOLECULES AND IONS
04/17/1997 – 12/31/1997 FY97: $86,475 Total: $86,475
Prin. Invest.: W H PARKINSON
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 4430 HARVARD UNIVERSITY **5612**
ISOTOPIC STUDIES OF SOLAR SYSTEMS ORIGINS
05/06/1997 – 02/28/1998 FY97: $45,000 Total: $45,000
Prin. Invest.: D B JACOBSEN
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4522 HARVARD UNIVERSITY **5613**
DEVELOPMENT OF HOT-ELECTRON MICROBOLOMETERS FOR OB COSMIC MICROWAVE BACKGROUND RADIATION
05/28/1997 – 05/31/1998 FY97: $250,000 Total: $250,000
Prin. Invest.: P NAHUM
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 4601 HARVARD UNIVERSITY **5614**
INVESTIGATION OF STAR FORMATION
05/14/1997 – 04/30/1998 FY97: $45,000 Total: $45,000
Prin. Invest.: D G CAMERON
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4690 HARVARD UNIVERSITY **5615**
THEORETICAL RESEARCH IN PLANETARY PHYSICS
06/26/1997 – 06/30/1998 FY97: $70,000 Total: $70,000
Prin. Invest.: D CAMERON
Tech. Officer: GSFC/D F NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4713 HARVARD UNIVERSITY **5616**
CRYSTAL-LIQUID DENSITY INVERSIONS IN LUNAR AND PLA
06/17/1997 – 06/30/1998 FY97: $70,000 Total: $70,000
Prin. Invest.: D G AGEE
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4720 HARVARD UNIVERSITY **5617**
TUNGSTEN ISOTOPE STUDIES OF METEORITES
06/17/1997 – 03/31/1998 FY97: $25,000 Total: $25,000
Prin. Invest.: D B JACOBSEN
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4722 HARVARD UNIVERSITY **5618**
NET ECOSYSTEM EXCHANGE OF CO2 AND NITROGEN OXIDES: MEASUREMENTS CLIMATIC & BIOLOGICAL CONTROLS & SPA
06/11/1997 – 12/31/1997 FY97: $302,000 Total: $302,000
Prin. Invest.: D WORSY
Tech. Officer: GSFC/D WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 5103 HARVARD UNIVERSITY **5619**
DEVELOPMENT OF EXITE3, IMAGING DETECTORS AND A LONG-DURATION BALLOON GONDOLA
02/11/1997 – 12/31/1997 FY97: $197,428 Total: $197,428
Prin. Invest.: J E GRINDLAY
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 6136 HARVARD UNIVERSITY **5620**
EDDY CORRELATION FLUX MEASUREMENTS OF CO2, O3 AND
09/11/1997 – 04/30/1998 FY97: $330,000 Total: $330,000
Prin. Invest.: D WOFSY
Tech. Officer: HQ/D WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 8 1034 HARVARD UNIVERSITY **5621**
TIMING AND SPECTRAL STUDIES OF THE LMXB1916-05
02/07/1994 – 03/31/1996 FY97: $0 Total: $14,848
Prin. Invest.: J E TRINDLEY
Tech. Officer: MSFC/J VARGAS
CASE Category: 11 – ASTRONOMY

NAG 8 1256 HARVARD UNIVERSITY **5622**
KINETICS OF NUCLEATION AND GROWTH FROM UNDERCOOLED MELTS
05/24/1996 – 05/22/1998 FY97: $87,500 Total: $262,500
Prin. Invest.: F A SPAEPEN, F SPAEPEN
Tech. Officer: MSFC/C R TALLEY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 599 HARVARD UNIVERSITY **5623**
PALEOSOLS AS INDICATORS OF ATMOSPHERIC EVOLUTION
04/01/1984 – 09/30/1996 FY97: $0 Total: $944,230
Prin. Invest.: A D HOLLAND
Tech. Officer: HQ/J D RUMMEL, HQ/M AVERNER
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 624 HARVARD UNIVERSITY **5624**
DEVELOPMENT OF AN ENERGETIC X-RAY IMAGING EXPERIMENT (EXITE) AND ASSOCIATED BALLON GONDOLA
04/01/1984 – 12/31/1997 FY97: $0 Total: $3,668,470
Prin. Invest.: J GRINDLAY
Tech. Officer: HQ/L J KALUZIENSKI, HQ/A N BUNNER
CASE Category: 11 – ASTRONOMY

NAGW 893 HARVARD UNIVERSITY **5625**
CONTINUED RESEARCH
05/15/1986 – 11/30/1996 FY97: $0 Total: $747,308
Prin. Invest.: A H KNOLL
Tech. Officer: HQ/J D RUMMEL, HQ/M AVERNER
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1230 HARVARD UNIVERSITY **5626**
STRATOSPHERIC CHEMISTY'DRY
02/29/1988 – 11/30/1997 FY97: $0 Total: $1,789,203
Prin. Invest.: S C WOFSY
Tech. Officer: HQ/R D MCPETERS, HQ/M J PRATHER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 1598 HARVARD UNIVERSITY **5627**
THEORETICAL RESEARCH IN PLANETARY PHYSICS
01/23/1989 – 06/30/1997 FY97: $0 Total: $571,342
Prin. Invest.: A G CAMERON
Tech. Officer: HQ/J M BOYCE, HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1687 HARVARD UNIVERSITY **5628**
LABORATORY STUDIES IN ULTRAVIOLET SOLAR PHYSICS
03/13/1989 – 09/30/1996 FY97: $0 Total: $849,596
Prin. Invest.: W H PARKINSON
Tech. Officer: HQ/J D BOHLIN, HQ/S KANE
CASE Category: 13 – PHYSICS

NAGW 2277 HARVARD UNIVERSITY **5629**
INVESTIGATIONS OF STAR FORMATION PROCESSES
01/09/1991 – 06/30/1997 FY97: $0 Total: $340,221
Prin. Invest.: A G CAMERON
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 2632 HARVARD UNIVERSITY **5630**
THREE-DIMENSIONAL MODELING OF TROPOSPHERIC TRACE G ASES
08/22/1991 – 05/14/1997 FY97: $0 Total: $1,224,165
Prin. Invest.: M B MCELROY, S C WOFSY
Tech. Officer: HQ/J A KAYE, HQ/R E MURPHY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 2838 HARVARD UNIVERSITY **5631**
CRYSTAL NUCLEATION, HYDROSTATIC TENSION AND DIFFUS ION IN METAL AND SEMICONDUCTOR MELTS
01/31/1992 – 09/30/1996 FY97: $0 Total: $378,000
Prin. Invest.: F A SPAEPEN, D TURNBULL, M J AZIZ
Tech. Officer: HQ/B M CARPENTER
CASE Category: 13 – PHYSICS

NAGW 2858 HARVARD UNIVERSITY **5632**
ISOTOPIC STUDIES OF THE ORIGIN OF THE SOLAR SYSTEM
01/31/1992 – 01/31/1997 FY97: $0 Total: $364,959
Prin. Invest.: S B JACOBSEN
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3082 HARVARD UNIVERSITY **5633**
DIRECT MEASUREMENTS OF ECOSYSTEM FLUXES OF CO2 AND NOY
05/15/1992 – 06/30/1997 FY97: $0 Total: $1,362,514
Prin. Invest.: S C WOFSY
Tech. Officer: HQ/A C JANETOS, HQ/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3280 HARVARD UNIVERSITY **5634**
NAGW-3280/HARVARD UNIV/COMPACT OBJECTS & BINARIES IN GLOBULAR CLUSTERS & THE GALAXY
11/27/1992 – 09/30/1996 FY97: $0 Total: $186,969
Prin. Invest.: J GRINDLAY
Tech. Officer: HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 3467 HARVARD UNIVERSITY **5635**
GEOMAGNETIC FIELD MODELS INCORPORATION PHYSICAL CO NSTRAINTS ON THE SECULAR VARIATIONS
04/09/1993 – 02/28/1996 FY97: $0 Total: $202,000
Prin. Invest.: J BLOXHAM
Tech. Officer: HQ/B F CHAO, HQ/R E MURPHY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3996 HARVARD UNIVERSITY **5636**
CRYSTAL-LIQUID DENSITY INVERSIONS IN TERRESTRIAL A ND LUNAR BASALTS
05/14/1994 – 03/31/1998 FY97: $0 Total: $203,250
Prin. Invest.: C AGEE
Tech. Officer: HQ/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 4170 HARVARD UNIVERSITY **5637**
DEVELOPMENT OF HOT-ELECTRON MICROCALORIMETERS FOR X-RAY ASTRONOMY
10/20/1994 – 09/30/1996 FY97: $0 Total: $255,000
Prin. Invest.: M NAHUM
Tech. Officer: HQ/L J KALUZIENSKI
CASE Category: 11 – ASTRONOMY

NAGW 4412 HARVARD UNIVERSITY **5638**
SEARCH FOR 23RD-MAG KUIPER BLET COMETS
09/20/1995 – 06/30/1997 FY97: $35,000 Total: $63,010
Prin. Invest.: J LUU
Tech. Officer: HQ/P G ROGERS
CASE Category: 11 – ASTRONOMY

NAGW 4609 HARVARD UNIVERSITY **5639**
CROSS SECTION MEASUREMENTS FOR SOLAR COSMIC RAY STUDIES
08/17/1995 – 06/30/1997 FY97: $65,311 Total: $130,622
Prin. Invest.: M FRANKLIN
Tech. Officer: HQ/D NAVA
CASE Category: 12 – CHEMISTRY

NAGW 4781 HARVARD UNIVERSITY **5640**
DEVELOPMENT OF AN ULTRA-SENSITIVE FAR-INFRARED SPE CTROME-TER, AND A 100 MK REFRIGERATOR, INTEGRATED
09/20/1995 – 08/01/1997 FY97: $0 Total: $150,000
Prin. Invest.: M NAHUM
Tech. Officer: HQ/D A HOLLAND, HQ/J H BREDEKAMP
CASE Category: 11 – ASTRONOMY

NAGW 4819 HARVARD UNIVERSITY **5641**
HIGH SPEED CCD PHOTOMENTRY OF THE P/SHOEMAKER-LEVY JUPITER COLLISION
10/06/1995 – 06/30/1997 FY97: $0 Total: $24,727
Prin. Invest.: J LUU
Tech. Officer: HQ/E BARKER
CASE Category: 11 – ASTRONOMY

NAGW 4888 HARVARD UNIVERSITY **5642**
ABSOLUTE TRANSITION PROBABILITIES FOR LINES IN THE VUV SPECTRA
12/07/1995 – 04/30/1997 FY97: $0 Total: $82,180
Prin. Invest.: W H PARKINSON
Tech. Officer: HQ/L TAFF, HQ/D W WEEDMAN
CASE Category: 13 – PHYSICS

NAGW 4928 HARVARD UNIVERSITY **5643**
CCD PHOTOMETRY STUDY
03/07/1996 – 09/30/1997 FY97: $0 Total: $40,028
Prin. Invest.: J X LUU
Tech. Officer: HQ/E BARKER, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAS 1 18946 HARVARD UNIVERSITY **5644**
SAGE III SCIENCE SUPPORT; P.I. – WOFSY
11/28/1989 – 01/31/2005 FY97: $50,000 Total: $290,946
Prin. Invest.: S C WOFSY
Tech. Officer: LARC/G MADDREA
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAS 1 96022 HARVARD UNIVERSITY **5645**
SAGE II DATA – STRATOSPHERIC CHEMISTRY AND TRANSPORT USING, STUDIES OF
06/19/1996 – 06/19/1999 FY97: $75,000 Total: $150,000
Prin. Invest.: S C WOFSY
Tech. Officer: LARC/G L MADDREA,JR.
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 694 HARVARD UNIVERSITY **5646**
DEVELOPMENT OF A HIGH-SENSITIVITY, FAST RESPONSE INSTRUMENT FOR IN SITU DETERMINATION OF CO2"
09/27/1990 – 09/30/1997 FY97: $389,776 Total: $1,723,108
Prin. Invest.: S C WOFSY, D W TOOHEY
Tech. Officer: ARC/E P CONDON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 790 HARVARD UNIVERSITY **5647**
HIGH-ALTITUDE, TROPICAL LATITUDE C10,BRO,O3,P & T OBSERVATIONS FROM THE PERSEUS FOR THE 1994 ASHOM..
04/02/1993 – 09/30/1996 FY97: $0 Total: $832,031
Prin. Invest.: J G ANDERSON
Tech. Officer: ARC/E CONDON, ARC/C DULLEN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 892 HARVARD UNIVERSITY **5648**
AIRBORNE INSTRUMENTS FOR THE IN SITU DETECTION OF CIONO2, NO2, CIO, & BRO IN THE STRATOSPHERE
03/16/1995 – 06/30/1997 FY97: $450,000 Total: $2,423,990
Prin. Invest.: G J ANDERSON
Tech. Officer: ARC/S S WEGENER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 897 HARVARD UNIVERSITY **5649**
LIGHTWEIGHT HIGH-PRECISION, FAST RESPONSE INSTRUME NT FOR AIR-BORNE CO2 MEASUREMENTS FOR UAVS
03/22/1995 – 12/31/1997 FY97: $271,000 Total: $829,804
Prin. Invest.: S C WOFSY
Tech. Officer: ARC/S S WEGENER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 913 HARVARD UNIVERSITY **5650**
STRAT CAMPAIGN: ER-2 PARTICIPATION
08/25/1995 – 12/31/1997 FY97: $625,473 Total: $920,157
Prin. Invest.: J G ANDERSN
Tech. Officer: ARC/S S WEGENER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 30172 HARVARD UNIVERSITY **5651**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/23/1993 – 08/31/1996 FY97: -$697 Total: $65,303
Prin. Invest.: D JACOB
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 30182 HARVARD UNIVERSITY **5652**
GLOBAL CHANGE FELLOWSHIP PROGRAM
09/02/1993 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: M S MCELROY
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30184 HARVARD UNIVERSITY **5653**
GLOBAL CHANGE FELLOWSHIP PROGRAM
09/02/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: D JACOB
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 30195 HARVARD UNIVERSITY **5654**
GLOBAL CHANGE FELLOWSHIP PROGRAM
09/01/1993 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: F A BAZZAZ
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30256 HARVARD UNIVERSITY **5655**
GLOBAL CHANGE FELLOWSHIP PROGRAM
10/06/1994 – 08/31/1996 FY97: $0 Total: $44,000
Prin. Invest.: S B JACOBSEN
Tech. Officer: HQ/M BALTUCK, HQ/G ASRAR
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 50999 HARVARD UNIVERSITY **5656**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/28/1992 – 01/31/1996 FY97: –$1,093 Total: $64,907
Prin. Invest.: J E GRINDLAY
Tech. Officer: HQ/J K ALEXANDER
CASE Category: 13 – PHYSICS

NGT 51081 HARVARD UNIVERSITY **5657**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/09/1993 – 06/30/1996 FY97: $0 Total: $66,000
Prin. Invest.: R KIRSHNER
Tech. Officer: HQ/J LYNCH
CASE Category: 11 – ASTRONOMY

NGT 51093 HARVARD UNIVERSITY **5658**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/27/1993 – 06/30/1996 FY97: –$20,683 Total: $45,317
Prin. Invest.: R P KIRSHNER
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51312 HARVARD UNIVERSITY **5659**
GRADUATE STUDENT RESEARCHER PROGRAM
08/22/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: R KIRSHNER
Tech. Officer: ARC/M MOORE
CASE Category: 11 – ASTRONOMY

NGT 51405 HARVARD UNIVERSITY **5660**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/27/1995 – 07/31/1998 FY97: $0 Total: $44,000
Prin. Invest.: M NAHUM
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51664 HARVARD UNIVERSITY **5661**
GRSAD STUDENT RESEARCH PROGRAM
08/23/1996 – 08/31/1997 FY97: $0 Total: $22,000
Prin. Invest.: A LEOB
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51694 HARVARD UNIVERSITY **5662**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/08/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: J GRINDLAY
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51706 HARVARD UNIVERSITY **5663**
GRAD STUDENT RESEARCH PROGRAM
08/15/1996 – 08/31/1997 FY97: $0 Total: $22,000
Prin. Invest.: L VALIANT
Tech. Officer: JPL/C HIX
CASE Category: 21 – MATHEMATICS

NGT 90172 HARVARD UNIVERSITY **5664**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/27/1993 – 08/14/1996 FY97: $0 Total: $36,000
Prin. Invest.: L BUELL
Tech. Officer: HQ/D K RUSSELL
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 90254 HARVARD UNIVERSITY **5665**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
12/20/1994 – 08/14/1996 FY97: $0 Total: $48,000
Prin. Invest.: L BUELL
Tech. Officer: HQ/D K RUSSELL
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 5 30002 HARVARD UNIVERSITY **5666**
EFFECTS OF ELEVATED CO2 AND NITROGEN DEPOSITION ON AND COMMUNITY COMPOSITION IN A MIXED CONIFER–HARD
10/11/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: F BAZZAZ
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 50020 HARVARD UNIVERSITY **5667**
OBSERVATIONS AND INSTRUMENTATION DEVELOPMENT TO ST UTRON STARS'
07/14/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J GRINDLEY
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50028 HARVARD UNIVERSITY **5668**
A COMBINED X–RAY AND GRAVITATIONAL LENSING DETERMI STERS OF GALAXIES
07/14/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: A LOEB
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50122 HARVARD UNIVERSITY **5669**
AN X–RAY DETECTOR WITH BETTER THAN 10EV RESOLUTION RATOR, INTEGRATED ONTO A SINGLE CHIP
09/10/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D NAHUM
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50145 HARVARD UNIVERSITY **5670**
EFFICIENT, PORTABLE PARALLEL VOLUME RENDERING
09/17/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: L G VALIANT
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90039 HARVARD UNIVERSITY **5671**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
01/30/1997 – 08/14/1997 FY97: $24,000 Total: $24,000
Prin. Invest.: L BUELL
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 49 – ENGINEERING, OTHER

NGT10 52601 HARVARD UNIVERSITY **5672**
GRADUATE STUDENT RESEARCH GRANT
06/05/1995 – 06/30/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: M J HULLER
Tech. Officer: KSC/JSAGER
CASE Category: 55 – AGRICULTURE

NAG 1 991 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5673**
COMPOSITE FUSELAGE TECHNOLOGY
04/10/1989 – 07/31/1998 FY97: $55,864 Total: $830,809
Prin. Invest.: P A LAGACE, M J GRAVES
Tech. Officer: LARC/J H STARNES, LARC/M J SHUART
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1252 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5674**
METEOROLOGICAL ANALYSIS OF PACIFIC EXPLORATORY MISSION-WEST (PEM-WEST)
04/15/1991 – 09/30/1996 FY97: $1 Total: $928,874
Prin. Invest.: R E NEWELL
Tech. Officer: LARC/J M HOELL, LARC/M C SHIPHAM
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1463 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5675**
PREDICTION OF THERMAL CYCLING INDUCED CRACKING IN POLYMER MATRIX COMPOSITES – MY 1/3
01/29/1993 – 12/31/1996 FY97: –$1 Total: $103,058
Prin. Invest.: H L MCMANUS
Tech. Officer: LARC/D E BOWLES, LARC/S S THOMPKINS
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 1511 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5676**
COMPRESSIBLE MIXING AND NOISE GENERATION DOWNSTREAM OF LOBED MIXERS
06/25/1993 – 08/30/1996 FY97: –$1 Total: $403,838
Prin. Invest.: I A WAITZ, F M GREITZER, C S TAN
Tech. Officer: LARC/J M SEINER, LARC/M K PONTON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1512 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5677**
SUCTION AND BLOWING STRATEGIES FOR REDUCTION OF FAN NOISE
06/25/1993 – 09/30/1997 FY97: $130,171 Total: $838,590
Prin. Invest.: I A WAITZ, K U INGARD, A H EPSTEIN
Tech. Officer: LARC/C H GERHOLD
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1525 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5678**
PROBLEMS IN SUPERSONIC BOUNDARY LAYER STABILITY
06/30/1993 – 12/31/1997 FY97: $14,930 Total: $59,368
Prin. Invest.: K S BREYER
Tech. Officer: LARC/S K ROBINSON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1531 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5679**
ANALYSIS OF NOISE MINIMAL APPROACH AND DEPARTURE PROCEDURES USING ADVANCED FLIGHT GUIDANCE TECHNIQU
08/30/1993 – 08/31/1997 FY97: $0 Total: $308,894
Prin. Invest.: R J HANSMAN JR.
Tech. Officer: LARC/C A POWELL, LARC/K P SHEPHERD
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1577 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5680**
FUTURE POTENTIAL FOR A LARGE ALL-CARGO AIRCRAFT SYSTEM (LACAS)
01/26/1994 – 08/01/1996 FY97: –$1 Total: $160,000
Prin. Invest.: R W SIMPSON
Tech. Officer: LARC/S J MORRIS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1587 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5681**
FINITE ELEMENT METHODS FOR THE SIMULATION OF HYPERSONIC FLOWS
01/31/1994 – 07/31/1998 FY97: $33,001 Total: $271,475
Prin. Invest.: J PERAIRE
Tech. Officer: LARC/K S BEY, LARC/A R WIETING
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1602 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5682**
MIT ENGINEERING/RESEARCH INTERNSHIP PROGRAM
02/01/1994 – 05/31/1996 FY97: –$4,921 Total: $69,070
Prin. Invest.: I A WAITZ
Tech. Officer: LARC/D S MILLAR
CASE Category: 49 – ENGINEERING, OTHER

NAG 1 1613 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5683**
SURROGATES FOR NUMERICAL SIMULATIONS; AN OPTIMIZAT ION FRAMEWORK
05/06/1994 – 12/31/1997 FY97: $30,000 Total: $240,311
Prin. Invest.: A T PATERA
Tech. Officer: LARC/T W ROBERTS
CASE Category: 46 – MECHANICAL ENGR

NAG 1 1637 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5684**
DESIGN, PLANNING AND CONTROL OF ROBOTIC SYSTEMS IN SPACE
07/22/1994 – 09/30/1996 FY97: –$1 Total: $140,000
Prin. Invest.: S DUBROWSKY
Tech. Officer: LARC/H A ALDRIDGE, LARC/L K BARKER
CASE Category: 46 – MECHANICAL ENGR

NAG 1 1717 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5685**
STRUCTURAL TECHNOLOGY FOR ADVANCED SPACECRAFT
06/06/1995 – 03/31/1997 FY97: $0 Total: $400,001
Prin. Invest.: E F CRAWLEY
Tech. Officer: LARC/W BELVIN
CASE Category: 49 – ENGINEERING, OTHER

NAG 1 1758 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5686**
PHYSICAL PROCESSES GOVERNING ATMOSPHERIC TRACE CONSTITUENTS MEASURED FROM AIRCRAFT IN PEM-TROPICS
09/25/1995 – 03/31/1998 FY97: $172,040 Total: $468,040
Prin. Invest.: D E NEWELL, NONE
Tech. Officer: LARC/J M HOELL, JR., LARC/R J BENDURA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1785 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5687**
A LOW SELF NOISE MICROMACHINED MICROPHONE
01/24/1996 – 01/23/1998 FY97: $126,598 Total: $316,321
Prin. Invest.: M A SCHMIDT, K S BREUER
Tech. Officer: LARC/J M SEINER, LARC/T D NORUM
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1805 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5688**
INTERPRETATION OF TRACE GAS DATA USING INVERSE METHODS AND GLOBAL CHEMICAL TRANSPORT MODELS
02/08/1996 – 12/31/1997 FY97: $136,000 Total: $264,770
Prin. Invest.: R G PRINN
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1839 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5689**
ADVANCED SPACECRAFT ARCHITECTURAL CONCEPTS (ASAC) MY 1/2
06/28/1996 – 06/30/1998 FY97: $125,000 Total: $235,648
Prin. Invest.: D W MILLER
Tech. Officer: LARC/B R HANKS
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 1 1857 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5690**
FUNDAMENTAL ISSUES INVOLVED WITH MODE AWARENESS OF ADVANCED AUTOFLIGHT SYSTEMS
07/24/1996 – 07/23/1998 FY97: $91,344 Total: $147,053
Prin. Invest.: R J HANSMAN
Tech. Officer: LARC/M T PALMER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1900 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5691**
TRACE GAS TRANSPORT IN THE TROPOSPHERE AND THE INTERPRETATION OF IN SITU CONCENTRATION MEASURE.
02/10/1997 – 02/09/1998 FY97: $75,000 Total: $75,000
Prin. Invest.: R A PLUMB
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1901 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5692**
USE OF MAPS, GTE AND UARS–MLS DATA IN UNDERSTAND– ING TROPOSPHERIC PROCESSESCRITICAL TO MODEL DELV.
02/10/1997 – 02/09/1998 FY97: $80,000 Total: $80,000
Prin. Invest.: R E NEWELL, NONE
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1915 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5693**
HIGH TEMPERATURE PHOTOVALTAIC IR DETECTORS FOR SPACE APPLICATIONS
04/22/1997 – 09/15/1997 FY97: $79,678 Total: $79,678
Prin. Invest.: A F WITT, P BECLA
Tech. Officer: LARC/S P SANDFORD, LARC/J M MARLOWE
CASE Category: 45 – ELECTRICAL ENGR

NAG 2 632 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5694**
"LABORATORY STUDIES OF STRATOSPHERIC AEROSOL CHEMI STRY"
05/02/1990 – 12/31/1995 FY97: $0 Total: $885,240
Prin. Invest.: M J MOLINA
Tech. Officer: ARC/E CONDON, ARC/B TOON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 716 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5695**
SITUATIONAL AWARENESS ISSUES IN THE IMPLEMENTATIO N OF DATALINK
06/26/1991 – 09/30/1997 FY97: $62,000 Total: $991,310
Prin. Invest.: R J HANSMAN
Tech. Officer: ARC/K CORKER
CASE Category: 49 – ENGINEERING, OTHER

NAG 2 729 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5696**
MODELING INFORMATION PROCESSING IN FLIGHT MANAGEM ENT
08/27/1991 – 01/31/1998 FY97: $35,000 Total: $559,987
Prin. Invest.: T B SHERIDAN, NONE
Tech. Officer: ARC/K M CORKER, ARC/E J HARTZELL
CASE Category: 69 – PSYCHOLOGY, OTHER

NAG 2 855 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5697**
ARCHIVING OF PLANETARY RING DATA
07/16/1993 – 02/28/1998 FY97: $10,000 Total: $92,380
Prin. Invest.: J L ELLIOT
Tech. Officer: ARC/J N CUZZI
CASE Category: 11 – ASTRONOMY

NAG 2 884 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5698**
VISUALIZATION OF UNSTEADY COMPUTATIONAL FLUID DYNA MICS
02/23/1994 – 03/31/1997 FY97: $0 Total: $270,311
Prin. Invest.: R HAIMES
Tech. Officer: ARC/M J GERALD–YAMASAKI
CASE Category: 49 – ENGINEERING, OTHER

NAG 2 997 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5699**
EXISTING & REQUIRED MODELING CAPABILITIES FOR EVAL UATING ATM SYSTEMS & CONCEPTS
08/25/1995 – 12/31/1996 FY97: $0 Total: $222,590
Prin. Invest.: A R ODONI, J J DEYST, E FERON
Tech. Officer: ARC/S HASAN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 1088 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5700**
DECENTRALIZED & TACTICAL AIR TRAFFIC FLOW MANAGEME NT
10/03/1996 – 06/30/1997 FY97: $60,000 Total: $60,000
Prin. Invest.: A R ODONI
Tech. Officer: ARC/L TOBIAS, ARC/D R SCHLEICHER
CASE Category: 22 – COMPUTER SCIENCE

NAG 2 1105 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5701**
THE SASS OZONE & NOX EXPERIMENT (SONEX) OVER THE N ORTH ATLANTIC: SELECTIVESAMPLING BASED ON
01/24/1997 – 12/31/1997 FY97: $121,500 Total: $121,500
Prin. Invest.: N E NEWELL
Tech. Officer: ARC/E P CONDON, ARC/S S WEGENER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 1111 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5702**
INVESTIGATON OF ALERT ZONE & DISPLAY CONCEPTS FOR FREE FLIGHT
02/14/1997 – 12/31/1997 FY97: $119,977 Total: $119,977
Prin. Invest.: J K KUCHAR
Tech. Officer: ARC/S C LOZITO
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 1128 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5703**
DEPARTURES PLANNING AT BUSY AIRPORTS
05/09/1997 – 12/31/1997 FY97: $173,276 Total: $173,276
Prin. Invest.: A R ODONI, R J HANSMAN, E FERON
Tech. Officer: ARC/R W REMINGTON, ARC/B GLASS
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 2 1136 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5704**
SDSI IMPLEMENTATION
07/11/1997 – 05/31/1998 FY97: $51,120 Total: $51,120
Prin. Invest.: R L RIVEST
Tech. Officer: ARC/Y K LIU
CASE Category: 22 – COMPUTER SCIENCE

NAG 2 4008 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5705**
MIT DEVELOPMENT AND TESTING OF AIRFOILS FOR HIGH ALTITUDE AIRCRAFT
09/28/1994 – 05/30/1996 FY97: –$51 Total: $76,356
Prin. Invest.: M DRELA, T WASHINGTON
Tech. Officer: GSFC/R J GEENEN, GSFC/J BAUER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 695 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5706**
INVESTIGATION OF INTERACTION BETWEEN AC POWER LINES & SPACE PLASMAS
02/06/1986 – 01/31/1996 FY97: –$600 Total: $475,624
Prin. Invest.: D E HASTINGS, S OLBERT
Tech. Officer: LERC/D B SNYDER
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1237 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5707**
VORT STRUCT IN COMPRESSOR ENDWALL FLOWFIELDS: BASI C FLUID MECH & IMPACT ON PERFORMANCE & STABILITY
03/14/1991 – 03/18/1997 FY97: $14,144 Total: $589,052
Prin. Invest.: E M GREITZER
Tech. Officer: LERC/G J SKOCH
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1457 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5708**
IDENTIFICATION AND CONTROL OF ROTATING STALL MODES IN THE ADVANCED DUCTED PROPULSOR
02/23/1993 – 03/13/1997 FY97: $76,178 Total: $780,266
Prin. Invest.: J D PADUANO
Tech. Officer: LERC/M M BRIGHT
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1513 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5709**
EFFECTS OF FLOW UNSTEADINESS ON MULTISTAGE COMPRES SOR PERFORMANCE
08/06/1993 – 01/31/1998 FY97: $35,456 Total: $143,094
Prin. Invest.: E M GREITZER, F E MARBLE, N A CUMPSTY
Tech. Officer: LERC/A J STRAZISAR
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1567 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5710**
THREE–DIMENSIONAL AERODYNAMIC INSTABILITIES IN MUL TISTAGE COMPRESSORS
01/26/1994 – 03/31/1997 FY97: $51,525 Total: $312,882
Prin. Invest.: C S TAN, E M GREITZER
Tech. Officer: LERC/C K DRUMMOND, LERC/F A NEWMAN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1591 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5711**
UTILITY OF THE FLOW SUBSTITUTION PRINCIPLE FOR HIGH SPEED PROPULSION APPLICATIONS
06/01/1994 – 12/21/1996 FY97: $3,010 Total: $120,984
Prin. Invest.: C S TAN, E M GREITZER*Prin. Invest.:* NONE
Tech. Officer: LERC/M MIZUKAMI, LERC/C K DRUMMOND
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1640 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5712**
CHEMICAL INHIBITOR EFFECTS ON DIFFUSION FLAMES IN MICROGRAVITY
06/30/1994 – 06/29/1998 FY97: $77,153 Total: $314,364
Prin. Invest.: S HOCHGREB, G T LINTERIS
Tech. Officer: LERC/H ROSS
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1664 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5713**
CHEMICAL PROCESSES IN THE TURBINE AND EXHAUST NOZZ LE
09/19/1994 – 09/18/1997 FY97: $108,069 Total: $520,657
Prin. Invest.: I A WALTZ, R C MIAKE–LYE
Tech. Officer: LERC/L S N, LERC/H L NGUYEN
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1679 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5714**
DIRECT SIMULATION OF THREE DIMENSIONAL FLUID MECHA NICAL PHENOMENA IN INTERNAL FLOWS
11/09/1994 – 12/31/1997 FY97: $16,364 Total: $143,927
Prin. Invest.: C S TAN
Tech. Officer: LERC/J J ADAMCZYK
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1760 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5715**
EFFECTS OF MATERIAL DEGRADATION ON THE STRUCTURAL INTEGRITY OF COMPOSITE MATERIALS
06/22/1995 – 05/31/1996 FY97: –$458 Total: $40,413
Prin. Invest.: H L MCMANUS
Tech. Officer: LERC/C C CHAMIS, LERC/P N MURTHY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1761 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5716**
QUANTITATIVE STUDIES OF ICE ACCRETION PROCESSES
06/22/1995 – 07/31/1997 FY97: $0 Total: $93,053
Prin. Invest.: R J HANSMAN, K S BREUER
Tech. Officer: LERC/M G POTAPCZUK
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1771 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5717**
STATE VARIABLE MEASUREMENT IN HIGH SPEED TURBOMACH INERY
07/14/1995 – 07/12/1997 FY97: $11,687 Total: $87,061
Prin. Invest.: A E EPSTEIN
Tech. Officer: LERC/A STRAZISAR
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1845 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5718**
DYNAMICS OF THE MOLTEN CONTACT LINE
05/20/1996 – 05/19/2000 FY97: $87,000 Total: $217,000
Prin. Invest.: A A SONIN
Tech. Officer: LERC/M M HASAN
CASE Category: 13 – PHYSICS

NAG 3 1879 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5719**
MODELING OF PULSED PLASMA THRUSTER PLUMES
05/22/1996 – 05/21/2000 FY97: $107,250 Total: $186,000
Prin. Invest.: J B HOWARD
Tech. Officer: LERC/J E BROOKER
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1893 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5720**
MECHANISM-BASED LIFE PREDICTION MODELING FOR HIGH TEMPERATURE POLYMER MATRICCOMPOSITES
07/26/1996 – 06/22/1997 FY97: $50,002 Total: $60,002
Prin. Invest.: H L MCMANUS
Tech. Officer: LERC/K J BOWLES
CASE Category: 47 – METAL & MATERIALSENGR

NAG 3 1937 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5721**
A STUDY OF MICROFABRICATED LIQUID ROVKET MOTORS
08/05/1996 – 01/01/1998 FY97: $150,241 Total: $200,241
Prin. Invest.: A H EPSTEIN, J L KERREBROCK
Tech. Officer: LERC/S J SCHNEIDER
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 3 2019 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5722**
A GEOMETRY BASED INFA-STRUCTURE FOR COMPUTATIONAL ANALYSIS
03/05/1997 – 02/04/1998 FY97: $76,028 Total: $76,028
Prin. Invest.: R HAIMES, NONE
Tech. Officer: LERC/G J FOLLEN, LERC/C LAWRENCE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 2051 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5723**
THREE DIMENSIONAL AERODYNAMIC INSTABILLITIES IN MU LTI-STAGE AXIAL COMPRESSORS
05/27/1997 – 04/28/1998 FY97: $66,022 Total: $66,022
Prin. Invest.: C S TAN
Tech. Officer: LERC/A K OWEN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 2052 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5724**
IDENTIFICATION AND CONTROL OF ROTATING STALL MODES IN AXIAL COMPRESSORS
05/27/1997 – 11/09/1997 FY97: $120,645 Total: $120,645
Prin. Invest.: J PADUANO
Tech. Officer: LERC/M BRIGHT
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 2054 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5725**
IMPROVED MECHANISM-BASED LIFE PREDICTION MODELS
06/06/1997 – 09/30/1997 FY97: $40,000 Total: $40,000
Prin. Invest.: H L MCMANUS
Tech. Officer: LERC/K J BOWLES
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 4 105 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5726**
DEVELOPMENT OF AN UNSTRUCTURED MESH CAPABILITY FOR AEROELASTIC COMPUTATIONS ABOUT COMPLETE AIRCRAFT
02/02/1996 – 06/25/1998 FY97: $35,000 Total: $107,296
Prin. Invest.: J PERAIRE, NONE
Tech. Officer: DFRC/K GUPTA
CASE Category: 22 – COMPUTER SCIENCE

NAG 4 120 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5727**
DEVELOPMENT AND TESTING OF AIRFOILS FOR HIGH ALTITUDE AIRCRAFT
03/18/1997 – 03/18/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: M DRELA
Tech. Officer: DFRC/D S GREER, DFRC/A BOWERS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 584 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5728**
ANALYSIS OF THE SOLAR WIND EXPERIMENT – IMP-8
10/01/1985 – 09/30/1997 FY97: $94,363 Total: $1,297,119
Prin. Invest.: A J LAZARUS
Tech. Officer: GSFC/G BULLOCK
CASE Category: 11 – ASTRONOMY

NAG 5 1055 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5729**
GENERATION OF ARTIFICIAL PLASMA LAYERS BY 2 MICROWAVE BEAMS VIA AIR BREAKDOWN
06/15/1988 – 11/14/1997 FY97: $0 Total: $291,900
Prin. Invest.: M C LEE
Tech. Officer: GSFC/R F BENSON
CASE Category: 13 – PHYSICS

NAG 5 1826 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5730**
CONTEMPORANEOUS ROSAT/GINGA OBSERVATIONS OF X-RAY DIP SOURCES
11/13/1991 – 11/14/1996 FY97: $0 Total: $155,644
Prin. Invest.: W H LEWIN, NONE
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 1905 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5731**
STRATEGIES FOR SPACE GEODETIC MONITORING OF INFRAS EISMIC AND SUBSEISMIC TRANSIENT DEFORMATIONS
02/20/1992 – 08/31/1997 FY97: $0 Total: $239,373
Prin. Invest.: T H JORDAN
Tech. Officer: GSFC/B G BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 1906 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5732**
STUDIES OF ERROR SOURCES IN GEODETIC VLBI
02/21/1992 – 07/31/1997 FY97: $0 Total: $312,137
Prin. Invest.: A E ROGERS
Tech. Officer: GSFC/B G BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 1911 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5733**
CRUSTAL DEFORMATION FROM SURFACE AND INTERNAL LOAD S
02/26/1992 – 07/31/1997 FY97: $0 Total: $408,000
Prin. Invest.: B H HAGER
Tech. Officer: GSFC/B G BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 1947 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5734**
GPS SURVEY OF THE WESTERN TIEN SHAN PROPOSAL
03/16/1992 – 09/14/1997 FY97: $70,000 Total: $320,000
Prin. Invest.: P MOLNAR
Tech. Officer: GSFC/B G BILLS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 1951 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5735**
SPECTRA OF HIGH REDSHIFT RADIO QUIET QUASARS
03/18/1992 – 12/31/1995 FY97: –$148 Total: $64,852
Prin. Invest.: C R CANIZARES
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2046 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5736**
PULSE TIMING OF VELA X-1
07/28/1992 – 07/31/1997 FY97: $0 Total: $179,305
Prin. Invest.: W H LEWIN, M VAN DER KLIS
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2165 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5737**
ACCURATE, SIMULTANEOUS GAMMA RAY BURST POSITION DE TERMINATION USING THE BURST AND TRANSIENT. . . .
12/31/1992 – 12/31/1997 FY97: $0 Total: $122,000
Prin. Invest.: G R RICKER
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2255 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5738**
MICRO/MESOSCALE PHENOMENA OF CHARGED PARTICLE ENER GIZATION, DIFFUSION AND TRANSPORT
04/27/1993 – 04/30/1997 FY97: $0 Total: $795,119
Prin. Invest.: T CHANG
Tech. Officer: GSFC/T J BIRMINGHAM, GSFC/J D BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 2490 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5739**
FACTORS CONTROLLING POLEWARD HEAT TRANSPORT IN CLI MATE MODELS
01/27/1994 – 04/30/1997 FY97: $0 Total: $151,920
Prin. Invest.: P H STONE
Tech. Officer: GSFC/D G DUFFY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2540 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5740**
SPECTROSCOPIC STUDY OF LMC X-4 ECLIPSE PHENOMENA
02/28/1994 – 03/14/1998 FY97: $0 Total: $59,000
Prin. Invest.: G W CLARK
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2541 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5741**
OBSERVATIONS OF DISTANT, X-RAY SELECTED CLUSTERS O F GALAXIES
02/28/1994 – 03/14/1997 FY97: $0 Total: $8,000
Prin. Invest.: M W BAUTE
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2542 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5742**
X-RAY SPECTRAL STUDY OF THE SUPERNOVA REMNANT G296 .1–0.7
02/24/1994 – 09/14/1997 FY97: $0 Total: $26,922
Prin. Invest.: T H MARKERT
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2545 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5743**
IMPROVED PASSIVE MICROWAVE SOUNDING OF THE ATMOSPH ERE
03/09/1994 – 03/14/1998 FY97: $162,000 Total: $544,000
Prin. Invest.: D H STAELIN, NONE
Tech. Officer: GSFC/J SHIUE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2632 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5744**
ROSAT STUDIES OF TRANSIENT BINARY X-RAY PULSARS
06/23/1994 – 12/31/1997 FY97: $0 Total: $20,000
Prin. Invest.: P JOSS
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2685 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5745**
CONTINUATION OF RESEARCH AND IN ORBIT MONITORING OF THE SOLID STATE IMAGING SPECTROMETER
08/11/1994 – 08/14/1997 FY97: $0 Total: $959,000
Prin. Invest.: G RICKER
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2734 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5746**
X-RAY BURST SPECTROSCOPY
09/21/1994 – 03/31/1998 FY97: $0 Total: $85,000
Prin. Invest.: W LEWIS
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2740 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5747**
CHARACTERIZING STELLAR CORONAE
09/27/1994 – 03/31/1998 FY97: $0 Total: $27,351
Prin. Invest.: D HUENEMOERDER
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2812 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5748**
DIAGNOSIS OF STROTSPHERIC TRANSPORT USING MEASUREM ENTS OF LONG-LIVED TRACERS FROM UARS
12/07/1994 – 12/14/1997 FY97: $108,070 Total: $311,910
Prin. Invest.: R A PLUMB
Tech. Officer: GSFC/C H JACKMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2816 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5749**
COSMOLOGY AND STRUCTURE FORMATION.
12/07/1994 – 12/14/1997 FY97: $100,000 Total: $300,000
Prin. Invest.: E BERTSCHINGER
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2839 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5750**
SUPPORT OF REDUCTION AND ANALYSIS OF DATA FROM THE WIND SPACECRAFT DURING THE MO&DA PHASE OF THE PRO
12/14/1994 – 12/14/1997 FY97: $215,000 Total: $587,400
Prin. Invest.: A J LAZARUS
Tech. Officer: GSFC/K W OGILVIE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 2899 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5751**
DEFINITION STUDY OF X-RAY CCD FOCAL PLANE ASSEMBLIES AND ELECTRONICS FOR THEASTRO-E MISSION
02/23/1995 – 07/14/1996 FY97: $0 Total: $460,917
Prin. Invest.: G R RICKER
Tech. Officer: MSFC/R E DONNELLY, MSFC/J B HARTMAN
CASE Category: 11 – ASTRONOMY

NAG 5 2907 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5752**
PARTICIPATION IN THE GISS EOS PROPOSAL
03/14/1995 – 01/14/1998 FY97: $50,000 Total: $150,000
Prin. Invest.: P STONE
Tech. Officer: GSFC/D RIND
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2921 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5753**
MEASUREMENT OF MASS DISTRIBUTION IN ABELL CLUSTERS
03/22/1995 – 09/30/1997 FY97: $0 Total: $46,672
Prin. Invest.: D CANIZARES
Tech. Officer: GSFC/N WHITES
CASE Category: 11 – ASTRONOMY

NAG 5 2928 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5754**
ANALYSIS OF GRAVITY, MAGNETIC, AND SEISMIC REFLEC– TION DATA FROM TIBET AND NEIGHBORING REGIONS ETC.
04/14/1995 – 04/14/1998 FY97: $150,000 Total: $225,000
Prin. Invest.: M MCNUTT
Tech. Officer: GSFC/P G TAYLOR
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3009 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5755**
SYSTEMATIC STUDY OF BLACK–HOLE CANDIDATES WITH GINGA DATA GALAXIES
07/18/1995 – 07/31/1998 FY97: $0 Total: $69,500
Prin. Invest.: W H LEWIN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3109 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5756**
ALL – SKY STUDIES OF ACCRETION – POWERED PULSARS
10/26/1995 – 10/31/1997 FY97: $47,948 Total: $100,829
Prin. Invest.: H BRADT, D CHAKRABARTY
Tech. Officer: GSFC/J NORRIS, GSFC/N GEHRELS
CASE Category: 11 – ASTRONOMY

NAG 5 3206 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5757**
MONITORING THE CENTER OF M31
04/17/1996 – 10/31/1997 FY97: $0 Total: $11,510
Prin. Invest.: W LEWIN
Tech. Officer: GSFC/R PETRE
CASE Category: 13 – PHYSICS

NAG 5 3236 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5758**
A SEARCH FOR PULSATIONS FROM BE/X–RAY BINARIES
05/22/1996 – 11/30/1997 FY97: $0 Total: $20,023
Prin. Invest.: J RAPPAPORT
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3241 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5759**
SEARCH FOR A PULSAR IN SN 1978 K
05/22/1996 – 11/30/1997 FY97: $0 Total: $27,815
Prin. Invest.: J RAPPAPORT
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3264 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5760**
MARS OBSERVER LASER ALTIMETER INVESTIGATION
07/31/1996 – 09/30/1997 FY97: $133,552 Total: $215,060
Prin. Invest.: M T ZABER
Tech. Officer: GSFC/D E SMITH
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3266 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5761**
STUDY OF VERY RAPID PHENOMENA IN SCO X–1; RELATION BETWEEN LOW–FREQUENCY NOISE AND MILLISECOND VARI
07/01/1996 – 12/31/1997 FY97: $0 Total: $23,134
Prin. Invest.: W LEWIS
Tech. Officer: GSFC/J SWANK
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 3267 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5762**
STUDY OF VERY RAPID PHENOMENA IN SCO X–1
07/01/1996 – 12/31/1997 FY97: $0 Total: $5,095
Prin. Invest.: E MORGAN
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3268 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5763**
PULSE TIMING OF THE LOW–MASS X–RAY BINARY PULSAR 4 U1626–67
07/01/1996 – 12/31/1997 FY97: $0 Total: $19,688
Prin. Invest.: A LEVINE
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3281 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5764**
TIMING AND SPECTRAL STUDY OF LMC X–4
07/01/1996 – 12/31/1997 FY97: $0 Total: $17,800
Prin. Invest.: G CLARK
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3290 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5765**
MECHANICS OF LITHOSPHERE DEFORMATION
08/08/1996 – 03/14/1998 FY97: $29,500 Total: $75,390
Prin. Invest.: M T ZUBER
Tech. Officer: GSFC/D E SMITH
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3314 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5766**
A SEARCH FOR MICROSECOND VARIABILITY FROM BRIGHT G ALACTIC X–RAY SOURCES
08/07/1996 – 02/14/1998 FY97: $0 Total: $6,849
Prin. Invest.: E MORGAN
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3550 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5767**
ASSESSMENT OF GEOPHYSICAL SIGNALS IN GLOBAL GEODET IC DATA
12/14/1996 – 11/30/1997 FY97: $133,160 Total: $133,160
Prin. Invest.: D HERRING
Tech. Officer: GSFC/P TAYLOR
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3555 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5768**
A SEARCH FOR HOT GAS IN MERGING CLUSTERS
01/22/1997 – 01/14/1998 FY97: $10,000 Total: $10,000
Prin. Invest.: D DAVIS
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3558 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5769**
ACCRETING BLACK HOLES – AN ALL OUT EFFORT
12/14/1996 – 12/15/1997 FY97: $100,000 Total: $100,000
Prin. Invest.: W H LEWIN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3592 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5770**
COSMOLOGICAL APPLICATIONS OF GRAVITATIONAL LENSING
12/11/1996 – 12/14/1997 FY97: $28,453 Total: $28,453
Prin. Invest.: J HEWITT
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3594 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5771**
A SEARCH FOR PULSARS IN THE LMC
12/13/1996 – 12/31/1997 FY97: $10,600 Total: $10,600
Prin. Invest.: S RAPPAPORT
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3680 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5772**
ECLIPSE MAPPING OF THE HIGH ENERGY RADIATION FROM SCO 1994
01/11/1997 – 01/14/1998 FY97: $10,106 Total: $10,106
Prin. Invest.: R REMILLARD
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3683 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5773**
GAMMA RAY OBSERV OF PSR B1055–52 & OTHER SELECTED RCH FOR EGRET/RADIO PULSARS IN THE ETA CARINA REGI
01/08/1997 – 01/14/1998 FY97: $46,557 Total: $46,557
Prin. Invest.: V KASPI
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3724 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5774**
DETERMINATION OF THE GENERAL CIRCULATION OF THE GEOID SATELLITE ALTIMETRY
02/12/1997 – 11/30/1997 FY97: $218,000 Total: $218,000
Prin. Invest.: C I WUNSCH
Tech. Officer: GSFC/B C DOUGLAS
CASE Category: 33 – OCEANOGRAPHY

NAG 5 3726 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5775**
AMAZON DEFORESTATION & REGIONAL CLIMAT3E
02/12/1997 – 02/14/1998 FY97: $101,531 Total: $101,531
Prin. Invest.: R L BRAS
Tech. Officer: GSFC/R KAKAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3727 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5776**
DEVELOPMENT OF OLIGONUCLEOTIDE PROBES TO STUDY THE PROCHLOROCOCCUS STRAINS WITH DIFFERING PHOTOSYNTH
02/20/1997 – 02/14/1998 FY97: $55,463 Total: $55,463
Prin. Invest.: S W CHISHOLM
Tech. Officer: GSFC/J A YODER
CASE Category: 33 – OCEANOGRAPHY

NAG 5 3793 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5777**
LARGE-SCALE STRATOSPHERIC TRANSPORT PROCESSES
03/11/1997 – 02/28/1998 FY97: $141,420 Total: $141,420
Prin. Invest.: R A PLUMB
Tech. Officer: GSFC/J A KAYE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3804 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5778**
SEARCH FOR UNTRIGGERED EVENTS IN THE BATSE DATA BA STUDY OF GRO J1744–28 USING THE BATSE DATA BASE $
12/11/1996 – 12/14/1997 FY97: $29,000 Total: $29,000
Prin. Invest.: W LEWIN
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3915 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5779**
SOLAR SYSTEM DYNAMICS
02/21/1997 – 09/30/1997 FY97: $129,900 Total: $129,900
Prin. Invest.: J WISDOM
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3939 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5780**
SMALL MAIN-BELT SPECTROSCOPIC SURVEY
02/12/1997 – 09/30/1997 FY97: $100,000 Total: $100,000
Prin. Invest.: D P BINZEL
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 3940 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5781**
STELLAR OCCULTATION STUDIES OF PLUTO, TRITON
02/12/1997 – 11/30/1997 FY97: $105,000 Total: $105,000
Prin. Invest.: D L ELLIOT
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 3947 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5782**
FLOW TUBE STUDIES OF GAS PHASE CHEMICAL PROCESSES IMPORTANCE
02/21/1997 – 12/31/1997 FY97: $200,040 Total: $200,040
Prin. Invest.: M J MOLINA
Tech. Officer: GSFC/M J KURYLO
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3974 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5783**
ADVANCED GLOBAL ATMOSPHERIC GASES EXPERIMENT (AGAG
02/26/1997 – 01/31/1998 FY97: $419,984 Total: $419,984
Prin. Invest.: R G PRINN
Tech. Officer: GSFC/M J KURYLO
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3977 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5784**
COLLISION PROCESSES INVOLVING ATMOSPHERIC FREE RAD INFRARED ABSORBERS
02/26/1997 – 12/31/1997 FY97: $69,718 Total: $69,718
Prin. Invest.: P STEINFELD
Tech. Officer: GSFC/M J KURYLO
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4014 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5785**
A TEST SPIN-ORBIT COUPLING IN THE 4U0115+63 SYSTEM
03/03/1997 – 02/28/1998 FY97: $3,000 Total: $3,000
Prin. Invest.: V KASPI
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4047 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5786**
INVESTIGATION OF VENUS SURFACE PROPERTIES
03/10/1997 – 12/31/1997 FY97: $55,000 Total: $55,000
Prin. Invest.: D G FORD
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4057 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5787**
THEORETICAL STUDIES OF BINARY SYSTEMS CONTAINING C
03/19/1997 – 03/14/1998 FY97: $44,837 Total: $44,837
Prin. Invest.: S A RAPPAPORT
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4114 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5788**
LONG-TERM MONITORING OF PERSISTENT ACCRETION-POWER
04/17/1997 – 04/14/1998 FY97: $16,173 Total: $16,173
Prin. Invest.: D CHAKRAGARTY
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4115 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5789**
RXTE SEARCH FOR THE CENTRIFUGAL BARRIER IN TRANSIE
04/17/1997 – 04/14/1998 FY97: $25,842 Total: $25,842
Prin. Invest.: S RAPPAPORT
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4129 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5790**
THE PREBIOTIC SYNTHESIS OF POLYNUCLEOTIDES AND POL POLYPEPTIDES
03/11/1997 – 11/30/1997 FY97: $72,370 Total: $72,370
Prin. Invest.: D RICH
Tech. Officer: GSFC/M A MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 4135 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5791**
FAST SPECTROSCOPY OF Z SOURCES
03/17/1997 – 03/14/1998 FY97: $8,000 Total: $8,000
Prin. Invest.: W LEWIN
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4136 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5792**
THE 63 MS PULSAR PSR J1105-6107
03/17/1997 – 03/14/1998 FY97: $35,348 Total: $35,348
Prin. Invest.: V KASPI
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 4360 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5793**
CORRELATIONS OF SOLAR WIND DATA FROM INTERBALL, IM
04/11/1997 – 04/14/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: M I PAULARENA
Tech. Officer: GSFC/J D BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 4400 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5794**
X-RAY, OPTICAL REVERBERATION STUDY OF NEARBY BROAD
04/16/1997 – 04/14/1998 FY97: $10,106 Total: $10,106
Prin. Invest.: R A REMILARD
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4434 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5795**
RESEARCH PARTICIPATION IN THE MARS ORBITING LASER
04/28/1997 – 12/31/1997 FY97: $54,939 Total: $54,939
Prin. Invest.: G H PETTENGILL
Tech. Officer: GSFC/D E SMITH
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 4485 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5796**
TIMING AND SPECTRAL STUDY OF 4U 1538-52
05/06/1997 – 04/30/1998 FY97: $20,130 Total: $20,130
Prin. Invest.: G CLARK
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4486 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5797**
LUMINOSITY DEPENDENCE OF THE X-RAY SPECTRA AND VAR SOURCES
05/08/1997 – 04/30/1998 FY97: $16,000 Total: $16,000
Prin. Invest.: W LEWIN
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4555 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5798**
PLANETARY TECTONICS AND VOLCANISM
06/23/1997 – 03/31/1998 FY97: $196,700 Total: $196,700
Prin. Invest.: D R ZUBER
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4636 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5799**
OBSERVATIONS OF THE RAPID BURSTER IN OUTBURST (CYC OBSERVATIONS OF THE RAPIDBURSTER IN OUTBURST (CY
06/06/1997 – 05/31/1998 FY97: $26,015 Total: $26,015
Prin. Invest.: W LEWIN
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4655 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5800**
ON THE APPLICATION OF THE ADJOINT METHOD TO THE CM
05/27/1997 – 05/31/1998 FY97: $123,000 Total: $123,000
Prin. Invest.: P W RIZZOLI
Tech. Officer: GSFC/B C DOUGLAS
CASE Category: 33 – OCEANOGRAPHY

NAG 5 4733 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5801**
FAST TIMING AND SPECTROSCOPY OF Z SOURCES
06/04/1997 – 06/14/1998 FY97: $30,000 Total: $30,000
Prin. Invest.: W LEWIN
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4768 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5802**
PHASE EQUILIBRIUM INVESTIGATIONS OF PLANETARY MATE
06/09/1997 – 06/30/1998 FY97: $60,000 Total: $60,000
Prin. Invest.: P L GROVE
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4778 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5803**
RAINFALL-LIGHTNING RELATIONSHIPS ON A GLOBAL BASIS
06/18/1997 – 05/31/1998 FY97: $92,677 Total: $92,677
Prin. Invest.: E R WILLIAMS
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4805 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5804**
ORBITAL-PHASE-RESOLVED STUDY OF OAO 1657-415 IN SP
08/01/1997 - 07/31/1998 FY97: $16,173 Total: $16,173
Prin. Invest.: D CHAKRABARTY
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 4806 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5805**
MARS OBSERVER LASER ALTIMETER
08/01/1997 - 07/31/1998 FY97: $241,935 Total: $241,935
Prin. Invest.: M ZUBER
Tech. Officer: GSFC/D SMITH
CASE Category: 99 - MULTI INTERDISCPL, OTHER

NAG 5 4807 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5806**
GPS MEASUREMENTS OF LOCALIZED INTRACONTINENTAL DEF HAN
08/01/1997 - 07/31/1998 FY97: $54,000 Total: $54,000
Prin. Invest.: P MOLNAR
Tech. Officer: GSFC/H FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 4833 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5807**
INVESTIGATIONS OF THE INTERPLANETARY MEDIUM
06/17/1997 - 11/30/1997 FY97: $60,000 Total: $60,000
Prin. Invest.: D J LAZARUS
Tech. Officer: GSFC/M A FORMAN
CASE Category: 11 - ASTRONOMY

NAG 5 4870 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5808**
X-RAY, OPTICAL REVERBERATION STUDY OF 3C120
06/26/1997 - 06/30/1998 FY97: $13,483 Total: $13,483
Prin. Invest.: R A REMILLARD
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 4874 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5809**
THE 63 MS PULSAR PSR J1105-6107
07/03/1997 - 07/30/1998 FY97: $35,348 Total: $35,348
Prin. Invest.: V KASPI
Tech. Officer: GSFC/N WHITE
CASE Category: 11 - ASTRONOMY

NAG 5 4879 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5810**
XTE OBSERVATIONS OF PSR1259-63 NEAR APASTRON
07/15/1997 - 07/14/1998 FY97: $3,000 Total: $3,000
Prin. Invest.: V KASPI
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 4880 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5811**
THE FACTORS CONTROLLING POLEWARD HEAT TRANSPORT IN
07/15/1997 - 04/30/1998 FY97: $50,640 Total: $50,640
Prin. Invest.: P H STONE
Tech. Officer: GSFC/A HOU
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 4905 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5812**
A COUPLED REMOTE SENSING & MODELING APPROACH TO ES MOISTURE & TEMPERATURE INTHE LAND BIOSPHERE SYST
06/19/1997 - 03/31/1998 FY97: $58,919 Total: $58,919
Prin. Invest.: D ENTEKHABI
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 4928 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5813**
DATA-DRIVEN MODELS TO DESCRIBE ASTTONAUT PERFORMAN FULL-BODY DYNAMICS AND POSTURAL CONTROL
06/23/1997 - 03/31/1998 FY97: $101,683 Total: $101,683
Prin. Invest.: D J NEWMAN
Tech. Officer: GSFC/M AVERNER
CASE Category: 59 - LIFE SCIENCE,OTHER

NAG 5 4959 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5814**
ASCA STUDIES OF THE NEAREST REGION OF STAR FORMATI
06/27/1997 - 06/30/1998 FY97: $20,100 Total: $20,100
Prin. Invest.: J KASTNER
Tech. Officer: GSFC/N WHITE
CASE Category: 11 - ASTRONOMY

NAG 5 4989 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5815**
CENTER FOR QUANTITATIVE CARDIOVASCULAR PHYSIOLOGY, ANALYSIS
06/27/1997 - 06/30/1998 FY97: $175,000 Total: $175,000
Prin. Invest.: R COHEN
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 5 5105 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5816**
A THREE-YEAR PROGRAM OF MICRO AND NANO SYSTEM TECHNOLOGY DEVELOPMENT FOR X-RAY ASTRONOMY
01/17/1997 - 01/31/1998 FY97: $300,000 Total: $300,000
Prin. Invest.: C R CANIZARES
Tech. Officer: GSFC/B FLOWERS
CASE Category: 13 - PHYSICS

NAG 5 6062 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5817**
RECENT AND ACTIVE EVOLUTION OF THE EASTERN TIBETAN IPLINARY STUDY
07/28/1997 - 07/14/1998 FY97: $50,973 Total: $50,973
Prin. Invest.: B FIELD
Tech. Officer: GSFC/H FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 6063 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5818**
VERTICAL ACCURACY IMPROVEMENT FOR VLBI AND GPS
08/01/1997 - 07/14/1998 FY97: $92,850 Total: $92,850
Prin. Invest.: A NIELL
Tech. Officer: GSFC/H FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 6079 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5819**
FUNDING FOR MIT PROPOSAL ENTITLED "STRUCTURAL DYNA ANALYSES AND SIMULATIONS FOR NASA'S NGST" PROPOSA
09/11/1997 - 08/31/1998 FY97: $57,372 Total: $57,372
Prin. Invest.: D MILLER
Tech. Officer: HQ/W HAYDEN
CASE Category: 46 - MECHANICALENGR

NAG 5 6117 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5820**
SUPPORT OF THE DPS(DIVISION OF PLANETARY SCIENCES) MASACHUSETTS
08/08/1997 – 03/31/1998 FY97: $20,000 Total: $20,000
Prin. Invest.: D BINZEL
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 6129 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5821**
MODELING THE EXTENDED NEUTRAL ATMOSPHERE AND PLASM SATURN
08/04/1997 – 07/14/1998 FY97: $56,700 Total: $56,700
Prin. Invest.: D RICHARDSON
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 6130 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5822**
GENERAL CIRCULATION OF PLANETARY ATMOSPEHRES
08/04/1997 – 01/31/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: D DOWLING
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 6145 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5823**
CRUSTAL DEFORMATION AND EARTHQUAKE HAZARDS IN THE REGION
08/21/1997 – 08/31/1998 FY97: $150,000 Total: $150,000
Prin. Invest.: R E REILINGER
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 6206 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5824**
TOPOGRAPHY AND THE LARGE-SCALE SPATIAL DISTRIBUTIO
09/23/1997 – 08/31/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: E ELTAHIR
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6224 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5825**
ESTIMATION OF THE CIRCULATION OF THE PACIFIC OCEAN ALTIMETRIC DATA WITH A GENERAL CIRCULATION MODEL
08/21/1997 – 08/31/1998 FY97: $98,400 Total: $98,400
Prin. Invest.: P WUNSCH
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6352 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5826**
SURFACE DEFORMATION AND GRAVITY CHANGES FROM SURFA LOADS
09/26/1997 – 09/14/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: B HAGER
Tech. Officer: GSFC/E J LINSTROM
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6370 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5827**
MICROMACHINED MILLIMETER AND SUBMILLIMETER-WAVE SI FOR REMOTE SENSING
09/25/1997 – 07/31/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: D HU
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 286 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5828**
SYSTEMATIC STUDY OF BLACK HOLE CANDIDATES
03/31/1993 – 08/30/1996 FY97: $0 Total: $149,430
Prin. Invest.: W H LEWIN
Tech. Officer: MSFC/J VARGAS
CASE Category: 11 – ASTRONOMY

NAG 8 935 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5829**
R/S "PRECIPIATION AND LIGNTNING IN TROPICAL CONVECTION"
09/08/1992 – 09/07/1997 FY97: $53,000 Total: $242,880
Prin. Invest.: E R WILLIAMS
Tech. Officer: MSFC/R J BLAKESLEE
CASE Category: 11 – ASTRONOMY

NAG 8 949 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5830**
BSO/BTO IDENTIFICATION OF GRAVITY RELATED EFFECTS ON CRYSTAL GROWTH, SEGREGATION & DEFECT FORMATION
01/28/1993 – 01/27/1997 FY97: $78,545 Total: $677,402
Prin. Invest.: A F WITT
Tech. Officer: MSFC/E C ETHRIDGE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 951 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5831**
INTERFACIAL TRANSPORT AND KICELLAR SOLUBILIZATON PROCESS
01/22/1993 – 01/14/1996 FY97: $0 Total: $388,000
Prin. Invest.: T A HATTON
Tech. Officer: MSFC/B FACEMIRE
CASE Category: 13 – PHYSICS

NAG 8 961 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5832**
MODEL CONVECTION & CRYSTAL GROWTH IN DIRECT SOLIDI FICATION OF SEMICONDUCTOR& OXIDES MATERIALS
06/15/1993 – 06/30/1996 FY97: $0 Total: $375,000
Prin. Invest.: R A BROWN
Tech. Officer: MSFC/S L LEHOCZKY
CASE Category: 43 – CHEMICAL ENGR

NAG 8 962 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5833**
MICROSTRUCTURE FORMATION WHILE DIRECT SOLIDIFICATI ON OF BINARY ALLOYS WITH NO COVECTION
07/15/1993 – 06/30/1996 FY97: $0 Total: $375,000
Prin. Invest.: R A BROWN
Tech. Officer: MSFC/F R SZOFRAN
CASE Category: 43 – CHEMICAL ENGR

NAG 8 1069 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5834**
DROPLETS RESEARCH
09/12/1994 – 11/30/1996 FY97: $0 Total: $100,002
Prin. Invest.: M FLEMING, G TRAPAGA
Tech. Officer: MSFC/M ROBINSON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1183 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5835**
TEMPUS MICROGRAVITY SCIENCE
11/09/1995 – 11/06/1997 FY97: $212,000 Total: $398,000
Prin. Invest.: M FLEMING, G TRAPAGA
Tech. Officer: MSFC/T DCLOACH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1230 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5836**
ALLOY UNDER SOOLING EXPERIMENTS
10/25/1995 – 10/24/1997 FY97: $188,000 Total: $344,000
Prin. Invest.: M FLEMING
Tech. Officer: GSFC/T DELOACH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1253 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5837**
RESEARCH "APPLICATION OF PARALLEL COMPUTING FOR TWO AND THREE D MODELING OF BULK CRYSTAL GROWTH
06/24/1996 – 06/30/1998 FY97: $63,000 Total: $212,999
Prin. Invest.: R A BROWN
Tech. Officer: MSFC/C R TALLEY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1291 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5838**
RESEARCH "A TRADE STUDY OF MIRROR ARCHITECTURE FOR FUTURE, FILLED APERTURE TELESCOPES
05/30/1996 – 05/14/1997 FY97: $0 Total: $12,036
Prin. Invest.: D W MILLER
Tech. Officer: MSFC/M NEIN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1401 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5839**
DEVELOPMENT OF A OPTICAL CHARATERIZATION FACILITY FOR D–X DEFECTS IN BSO
09/02/1997 – 03/31/1998 FY97: $34,859 Total: $34,859
Prin. Invest.: A F WHITT
Tech. Officer: MSFC/DOTY
CASE Category: 46 – MECHANICAL ENGR

NAG 9 602 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5840**
EFFECT OF MICROGRAVITY ON MICROBIAL SECONDARY METABOLISM
05/05/1992 – 01/31/1998 FY97: $50,000 Total: $416,648
Prin. Invest.: A L DEMAIN
Tech. Officer: JSC/D L PIERSON
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 9 655 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5841**
MICROGRAVITY STUDIES OF CELL POLYMER CARTILAGE IMPLANTS
01/22/1993 – 07/31/1997 FY97: $0 Total: $630,000
Prin. Invest.: L E FREED
Tech. Officer: JSC/S GONDA
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 9 836 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5842**
MICROGRAVITY TISSUE ENGINEERING
09/19/1995 – 09/24/1998 FY97: $1,109,000 Total: $3,220,496
Prin. Invest.: L E FREED
Tech. Officer: JSC/N R PELLIS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 474 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5843**
INTERPRETATION OF NIMBUS–7 & SAGE–1 AEROSOL & TRACE GAS DATA USING THREE–DIMENSIONAL MODELS
06/17/1983 – 06/30/1996 FY97: $0 Total: $1,218,654
Prin. Invest.: R G PRINN
Tech. Officer: HQ/J A KAYE, HQ/R E MURPHY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 525 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5844**
STUDIES OF GLOBAL SCALE EVALATION PROCESS OF THE EARTHS ATMOSPHERE
11/01/1983 – 05/30/1997 FY97: $82,490 Total: $1,717,065
Prin. Invest.: R S LINDZEN, R DOLE
Tech. Officer: HQ/R K KAKAR, HQ/J THEON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 706 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5845**
SOLAR SYSTEM DYNAMICS
02/01/1985 – 06/30/1997 FY97: $0 Total: $851,523
Prin. Invest.: J WISDOM
Tech. Officer: HQ/J R UNDERWOOD, HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 732 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5846**
GLOBAL ATMOSPHERIC GASES EXPERIMENT (GAGE)
11/01/1984 – 07/31/1997 FY97: $0 Total: $2,608,120
Prin. Invest.: R G PRINN
Tech. Officer: HQ/R D MCPETERS, HQ/M J PRATHER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 1048 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5847**
FOUR MONTH NCE THROUGH 2/28/89 UNDER NEW CLAUSE
05/01/1987 – 05/31/1997 FY97: $0 Total: $1,424,030
Prin. Invest.: C WUNSCH
Tech. Officer: HQ/J G RICHMAN, HQ/W S WILSON
CASE Category: 33 – OCEANOGRAPHY

NAGW 1335 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5848**
CENTER FOR SPACE ENGINEERING RESEARCH
08/09/1988 – 09/30/1997 FY97: $0 Total: $8,957,195
Prin. Invest.: E F CRAWLEY, E F CRAWLEY
Tech. Officer: HQ/G I JOHNSTON
CASE Category: 49 – ENGINEERING, OTHER

NAGW 1386 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5849**
A STUDY OF INTERFEROMETRIC METHODS FOR THE DETCTRON PLANETS
08/03/1988 – 09/30/1997 FY97: $0 Total: $605,000
Prin. Invest.: B I BURKE
Tech. Officer: HQ/C PILCHER
CASE Category: 11 – ASTRONOMY

NAGW 1450 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5850**
PHOTOMETRY OF PLUTO–CHARON MUTUAL EVENTS
08/23/1988 – 06/30/1997 FY97: $0 Total: $463,000
Prin. Invest.: R BINZEL
Tech. Officer: HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NAGW 1494 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5851**
OCCULTATION STUDIES OF THE SOLAR SYSTEM
12/12/1988 – 06/30/1997 FY97: $0 Total: $675,778
Prin. Invest.: J L ELLIOT
Tech. Officer: HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NAGW 1550 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5852**
INVESTIGATIONS OF THE INTERPLANETARY MEDIUM
12/06/1988 – 09/30/1997 FY97: $0 Total: $698,787
Prin. Invest.: A J LAZARUS
Tech. Officer: HQ/M M MELLOTT, HQ/W V JONES
CASE Category: 13 – PHYSICS

NAGW 1667 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5853**
INELASTIC COLLISION PROCESSES IN OZONE & THEIR RELATION
03/08/1989 – 06/30/1997 FY97: $52,629 Total: $567,915
Prin. Invest.: J I STEINFELD
Tech. Officer: HQ/M J KURYLO, HQ/S G TILFORD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 1727 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5854**
LARGE-SCALE DYNAMICS & TRANSPORT IN THE STRATOSPHERE
03/17/1989 – 02/28/1997 FY97: $0 Total: $937,249
Prin. Invest.: R A PLUMB
Tech. Officer: HQ/R D MCPETERS, HQ/M J PRATHER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 2003 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5855**
EXPERIMENTAL AND OBSERVATIONAL INVESTIGATIONS IN H IGH ENERGY ASTROPHYSICS
04/20/1990 – 01/30/1998 FY97: $0 Total: $2,049,570
Prin. Invest.: G CLARK
Tech. Officer: HQ/L J KALUZIENSKI, HQ/A N BUNNER
CASE Category: 11 – ASTRONOMY

NAGW 2014 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5856**
SPACE ENGINEERING (SECTION II)
02/28/1990 – 09/30/1997 FY97: $0 Total: $751,482
Prin. Invest.: E F CRAWLEY, E CRAWLEY, J W MAR
Tech. Officer: HQ/E W BULL, HQ/S L VENNERI
CASE Category: 49 – ENGINEERING, OTHER

NAGW 2049 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5857**
ELECTRONIC SPECTRA OF MATERIALS SIMULATING PLANETA RY SURFACES: OXIDATION PRODUCTS ON MARS AND VENU
04/05/1990 – 10/31/1995 FY97: –$98 Total: $259,102
Prin. Invest.: R BURNS
Tech. Officer: HQ/T A MAXWELL
CASE Category: 32 – GEOLOGICALSCIENCE

NAGW 2089 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5858**
CONTINUED DEVELOPMENT OF AN EXPLOSIVE TRANSIENT CA MERA FOR IDENTIFICATION OF GAMMA RAY BURST SOURCE
06/06/1990 – 01/30/1998 FY97: $173,000 Total: $1,609,848
Prin. Invest.: G RICKER
Tech. Officer: HQ/L J KALUZIENSKI, HQ/A N BUNNER
CASE Category: 11 – ASTRONOMY

NAGW 2155 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5859**
NAGW-2155/MASS INSTITUTE TECHNOLOGY/GEODETIC, REMO TE SENSING, GEOLOGICAL & GEOPHYSICAL STUDY
08/08/1990 – 05/31/1997 FY97: $0 Total: $405,000
Prin. Invest.: B G BURCHFIEL
Tech. Officer: HQ/M BALTUCK, HQ/T PIEPER
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2190 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5860**
NAGW-2190/MASS INSTITUTE OF TECHNOLOGY/LABORATORY CHEMISTRY OF CHLORINE AND FLUORINE COMPOUNDS
08/08/1990 – 12/31/1996 FY97: $0 Total: $1,376,965
Prin. Invest.: M J MOLINA
Tech. Officer: HQ/M J KURYLO, HQ/R T WATSON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 2341 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5861**
THE PREBIOTIC SYNTHESIS OF POLYNUCLEOTIDES AND POL YNUCLEOTIDE DIRECTED POLYPEPTIDES
02/14/1991 – 11/30/1996 FY97: $0 Total: $339,899
Prin. Invest.: A RICH
Tech. Officer: HQ/J D RUMMEL
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 2711 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5862**
THE APPLICATION OF THE ADJOINT METHOD TO THE CME
09/04/1991 – 09/30/1997 FY97: $0 Total: $673,140
Prin. Invest.: P MALANOTTE-RIZZO
Tech. Officer: HQ/D ADAMEO, HQ/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 2795 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5863**
EVOLUTION OF LATE ARCHEAN CARBONATE SEDIMENTS, STR OMATOLITES, AND ENVIRONMENTS
12/18/1991 – 09/30/1997 FY97: $0 Total: $420,617
Prin. Invest.: J P GROTZINGER
Tech. Officer: HQ/J D RUMMEL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2956 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5864**
GENERAL CIRCULATION OF PLANETARY ATMOSPHERES
03/03/1992 – 01/31/1997 FY97: $55,000 Total: $261,406
Prin. Invest.: T E DOWLING
Tech. Officer: HQ/W L QUAIDE
CASE Category: 11 – ASTRONOMY

NAGW 3310 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5865**
NAGW-3310/MASS INSTITUTE OF TECHNOLOGY/VERTICAL AEROSOL DISTRIBUTION ON NEPTUNE & URANUS
01/06/1993 – 06/30/1996 FY97: $0 Total: $68,730
Prin. Invest.: H B HAMMEL
Tech. Officer: HQ/H C BRINTON
CASE Category: 11 – ASTRONOMY

NAGW 3586 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5866**
PHASE EQUILIBRIUM INVESTIGATIONS OF PLANETARY MATE RIALS
05/12/1993 – 06/30/1997 FY97: $0 Total: $214,285
Prin. Invest.: T GROVE
Tech. Officer: HQ/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3901 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5867**
SPECTROSCOPY OF NEW EARTH OBJECTS
03/18/1994 – 12/31/1995 FY97: –$132 Total: $28,668
Prin. Invest.: R BINZEL
Tech. Officer: HQ/J A RAHE
CASE Category: 11 – ASTRONOMY

NAGW 3927 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5868**
NASA CENTER FOR QUANTITATIVE CARDIOVASCULAR PHYSIO LOGY
04/12/1994 – 09/30/1997 FY97: $0 Total: $1,085,022
Prin. Invest.: R J COHEN
Tech. Officer: HQ/R J WHITE
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 3936 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5869**
THEORETICAL STUDY OF SOLAR ACOUSTIC OSCILLATIONS
04/11/1994 – 01/31/1997 FY97: $0 Total: $172,999
Prin. Invest.: P KUMAR
Tech. Officer: HQ/W J WAGONER, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 3941 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5870**
DEVELOPMENT OF A LOW MASS LOW POWER HIGH VOLTAGE
05/02/1994 – 12/31/1995 FY97: –$700 Total: $54,300
Prin. Invest.: A J LAZARUS
Tech. Officer: HQ/W V JONES, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 3958 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5871**
VISUAL VESTIBULAR INTERACTION
05/10/1994 – 09/30/1997 FY97: $0 Total: $990,000
Prin. Invest.: L R YOUNG, C M OMAN
Tech. Officer: HQ/F M SULZMAN
CASE Category: 56 – MEDICL

NAGW 4163 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5872**
EXTENSIONS AND TESTING OF HYDROLOGIC PARAMETERIZAT IONS IN THE GISS GCM
10/24/1994 – 09/30/1997 FY97: $0 Total: $214,869
Prin. Invest.: D ENTEKHABI, P S EAGLESAN
Tech. Officer: HQ/R A SCHIFFER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4164 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5873**
MUTUAL INTERACTION OF SOIL MOISTURE AND CLIMATE DY NAMICS
10/24/1994 – 09/30/1997 FY97: $0 Total: $192,500
Prin. Invest.: D ENTEKHABI
Tech. Officer: HQ/M Y WEI, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4333 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5874**
SPACELAB ROTATING CHAIR EXTENDED DATA ANALYSIS
03/04/1995 – 09/30/1997 FY97: $0 Total: $138,897
Prin. Invest.: C M OMAN
Tech. Officer: HQ/R J WHITE
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4336 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5875**
DEVELOPMENT OF DATA–DRIVEN MODELS TO DESCRIBE ASTR ONAUT PERFORMANCE IN MICROGRAVITY
03/15/1995 – 01/14/1998 FY97: $0 Total: $173,953
Prin. Invest.: D J NEWMAN
Tech. Officer: HQ/R J WHITE
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4351 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5876**
INVESTIGATION OF VENUS SURFACE ELECTRICAL AND MECHANCIAL PROPERTIES
03/15/1995 – 09/30/1997 FY97: $0 Total: $110,000
Prin. Invest.: P FORD
Tech. Officer: HQ/H BRINTON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4427 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5877**
ADVANCED DESIGN PROGRAM
04/25/1995 – 01/24/1996 FY97: –$5,700 Total: $11,650
Prin. Invest.: S WEISS
Tech. Officer: HQ/A S MCGEE, HQ/G JOHNSTON
CASE Category: 49 – ENGINEERING, OTHER

NAGW 4498 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5878**
TELEMEDICINE WORKSTATION, EVALUATION & TECHNOLOGY ASSESSMENT
05/13/1995 – 05/31/1996 FY97: –$420 Total: $21,812
Prin. Invest.: D J NEWMAN
Tech. Officer: HQ/E W FERGUSON
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4508 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5879**
A COUPLED REMOTE SENSING AND MODELING APPROACH TO ESTIMATION OF SOIL MOISTURE
05/15/1995 – 09/30/1997 FY97: $56,112 Total: $109,550
Prin. Invest.: D ENTEKHABI, E NJOKU
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4621 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5880**
MIT PARTICIPATION AS ASUB–NODE IN THE PLANETARY DA TA SYSTEM GEOSCIENCES NODE
07/31/1995 – 06/30/1996 FY97: $0 Total: $46,250
Prin. Invest.: P FORD
Tech. Officer: HQ/J BERGSTRLH
CASE Category: 11 – ASTRONOMY

NAGW 4691 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5881**
MICROMACHINED MILLIMETER AND SUBMILLIMETER–WAVE SI S HETERODYNE RECEIVERS FOR REMOTE SENSING
08/09/1995 – 07/31/1997 FY97: $0 Total: $185,000
Prin. Invest.: Q HU
Tech. Officer: HQ/G ASRAR
CASE Category: 41 – AERONAUTICAL ENGNR

NAGW 4707 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5882**
TOPOGRAPHY AND THE LARGE–SCALE SPATIAL DISTRIBUTIO N OF SOIL MOISTURE
08/16/1995 – 09/30/1997 FY97: $0 Total: $200,000
Prin. Invest.: E ELTAHR
Tech. Officer: HQ/M Y WEI, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4750 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5883**
ON THE SPACE TIME ORGANIZATION OF SOIL MOISTURE FIELDS: DYNAMICS & INTERACTION W/ATMOSPHERE
09/22/1995 – 08/31/1998 FY97: $45,043 Total: $86,841
Prin. Invest.: D ENTEKHABI, I RODRIGUEZ–ITUBE
Tech. Officer: HQ/M Y WEI, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4762 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5884**
USING DATA ASSIMILATION
09/18/1995 – 08/31/1997 FY97: $114,949 Total: $224,635
Prin. Invest.: D MCLAUGHLIN, D ENTEKHABI
Tech. Officer: HQ/M Y WEI, HQ/A C JANETOS
CASE Category: 41 – AERONAUTICAL ENGNR

NAGW 4763 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5885**
A STUDY OF THE FEASIBILITY OF A GAMMA-RAY BURST ASTROMETRY MISSION, THE ENERGETIC TRANSIENT ARRAY
09/25/1995 – 09/30/1997 FY97: $0 Total: $50,000
Prin. Invest.: G R RICKER
Tech. Officer: HQ/M KAPLAN, HQ/D W WEEDMAN
CASE Category: 13 – PHYSICS

NAGW 4971 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5886**
LUNAR ORIGIN AND THERMAL EVOLUTION: INVESTIGATIONS USING CLEMENTINE AND APOLLO DATA
02/24/1996 – 11/30/1996 FY97: $0 Total: $55,000
Prin. Invest.: M T ZUBER
Tech. Officer: HQ/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 5021 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5887**
PLANETARY TECTONICS AND VOLCANISM
04/03/1996 – 03/31/1998 FY97: $88,450 Total: $215,800
Prin. Invest.: M T ZUBER
Tech. Officer: HQ/H BRINTON, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 5181 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5888**
RESTORATION OF PIONEER AND SOLRAD DATA SETS
08/27/1996 – 09/30/1997 FY97: $0 Total: $15,000
Prin. Invest.: D J LAZARUS
Tech. Officer: HQ/J B WILLETT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5201 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5889**
USE OF SATELLITE REMOTE SENSING TO STUDY THE ROLE OF RAINFOREST IN TROPICAL CLIMATE
09/25/1996 – 06/30/1997 FY97: $110,900 Total: $110,900
Prin. Invest.: E ELTAHIR
Tech. Officer: HQ/G ASRAR, HQ/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 5245 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5890**
ESTIMATION OF THE CIRCULATION OF PACIFIC OCEAN USING TOMOGRAPHIC & ALTIMETERDATA
11/21/1996 – 09/30/1997 FY97: $89,690 Total: $89,690
Prin. Invest.: C WUNSCH
Tech. Officer: HQ/B C DOUGLAS, HQ/R C HARRISS
CASE Category: 33 – OCEANOGRAPHY

NAS 1 18690 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5891**
MID-DECK 0-GRAVITY DYNAMICS EXPERIMENT
12/06/1988 – 09/30/1998 FY97: $178,142 Total: $5,904,857
Prin. Invest.: E CROWLEY
Tech. Officer: LARC/L G CLARK, LARC/S M BECK
CASE Category: 42 – ASTRONAUTICAL ENGR

NAS 3 27550 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5892**
MODELING OF ENVIRONMENTALLY INDUCED CHARGING IN CO MPOSITE SPACE STRUCTURE
06/12/1995 – 09/30/1997 FY97: $70,000 Total: $179,189
Prin. Invest.: H L MC MANUS
Tech. Officer: LERC/R CHOCK
CASE Category: 41 – AERONAUTICAL ENGNR

NAS 5 30612 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5893**
ALL SKY MONITOR INSTRUMENTS
12/15/1989 – 01/31/1999 FY97: $250,214 Total: $23,624,911
Prin. Invest.: H BRADT
Tech. Officer: GSFC/W DAVIS
CASE Category: 11 – ASTRONOMY

NAS 5 31376 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5894**
RECURSIVE ESTIMATION OF GEOGRAPHICAL PRODUCTS WITH AIRS/AMSU DATA (EOS INVESTIGATION)
01/10/1992 – 12/14/2001 FY97: $68,000 Total: $923,000
Prin. Invest.: D H STACLIN, P W ROSENKRANZ
Tech. Officer: GSFC/E KREINS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAS 5 31721 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5895**
EOS INVESTIGATION "GLOBAL HYDROLOGIC PROCESSES CLIMATE"
09/19/1991 – 08/31/1998 FY97: $80,000 Total: $703,250
Prin. Invest.: P EAGLESON, NONE
Tech. Officer: GSFC/W LAU
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 5 31728 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5896**
ACQUISITION OF VLBI CORRELATOR
03/19/1992 – 03/18/1998 FY97: $1,320,595 Total: $6,190,116
Prin. Invest.: A R WHITNEY
Tech. Officer: GSFC/B WILDES
CASE Category: 32 – GEOLOGICAL SCIENCE

NAS 5 32353 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5897**
MARK III VLBI SUPPORT
02/08/1994 – 02/07/1999 FY97: $1,724,558 Total: $4,947,310
Prin. Invest.: A NEILL
Tech. Officer: GSFC/W WILDES
CASE Category: 32 – GEOLOGICAL SCIENCE

NAS 5 32929 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5898**
XRAY CCDFPA FOR ASTRO-E
04/22/1996 – 03/31/2000 FY97: $1,300,000 Total: $2,790,000
Prin. Invest.: D RICKER
Tech. Officer: GSFC/J MURPHY
CASE Category: 13 – PHYSICS

NAS 5 33017 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5899**
GLRS SCIENCE TEAM MEMBER STUDY
09/01/1989 – 12/31/1997 FY97: $95,000 Total: $498,000
Prin. Invest.: T HERRING
Tech. Officer: GSFC/G SOFFEN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 8 37716 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5900**
CONDUCT AN X-RAY IMAGING SPECTROSCOPY SCIENTIFIC INVESTIGATION
07/23/1990 – 03/01/1999 FY97: $11,007,000 Total: $68,972,000
Prin. Invest.: G RICKER
Tech. Officer: MSFC/N B CUMINGS
CASE Category: 11 – ASTRONOMY

NAS 8 38249 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5901**
AXAF (HETGS)
07/13/1990 – 11/30/1999 FY97: $2,824,000 Total: $22,245,000
Prin. Invest.: C R CANIZARES
Tech. Officer: MSFC/C E WINKLER
CASE Category: 11 – ASTRONOMY

NAS 9 19536 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5902**
ROLE OF VISUAL CUES IN SPATIAL ORIENTATION
03/19/1996 – 03/31/1999 FY97: $200,000 Total: $456,000
Prin. Invest.: C M OMAN
Tech. Officer: SSC/S SAWYER
CASE Category: 56 – MEDICL

NASW 4690 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5903**
HIGH ENERGY TRANSIENT EXPERIMENT TO DETERMINE ORIG IN AND NATURE OF GAMMA-RAY BURSTS
03/30/1992 – 09/30/1997 FY97: $2,217,630 Total: $17,154,516
Prin. Invest.: G RICKER
Tech. Officer: HQ/D GILMAN, HQ/L KALUZIENSKI
CASE Category: 13 – PHYSICS

NASW 5071 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5904**
PURCHASE ONE SPACE IN THE MIT-SLOAN FELLOWSHIP PROGRAM
05/31/1996 – 05/06/1997 FY97: $0 Total: $62,100
Prin. Invest.: N
Tech. Officer: HQ/S NICHOLS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 1 259 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5905**
DEVELOPMENT OF AN ACTIVE TWIST ROTOR FOR WIND-TUNN EL TESTING
06/11/1997 – 05/31/1998 FY97: $70,000 Total: $70,000
Prin. Invest.: N W HAGOOD, IV
Tech. Officer: LARC/R D JOSLIN
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 570 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5906**
PRINCIPAL INVESTIGATOR IN A BOX
12/29/1988 – 03/31/1998 FY97: $80,000 Total: $1,998,309
Prin. Invest.: L R YOUNG
Tech. Officer: ARC/S LAU, ARC/D A ROSENTHAL
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 952 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5907**
VERTICAL STRUCTURE OF SPATIALLY RESOLVED FEATURES OF NEPTUNE
06/05/1996 – 06/30/1997 FY97: $0 Total: $11,470
Prin. Invest.: H B HAMMEL
Tech. Officer: ARC/C P MCKAY
CASE Category: 11 – ASTRONOMY

NCC 2 985 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5908**
AUTOMATED FLUID FEATURE EXTRACTION FORM TRANSIENT SIMULATIONS
04/01/1997 – 03/31/1998 FY97: $49,927 Total: $49,927
Prin. Invest.: R HAIMES
Tech. Officer: ARC/D L KAO, ARC/A VAZIRI
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 4001 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5909**
ALGORITHMS FOR IN-FLIGHT MODIFICATION ALGORITHMS FOR IN-FLIGHT MODIFICATION
12/16/1993 – 12/31/1997 FY97: $50,000 Total: $255,424
Prin. Invest.: J D PADUANO
Tech. Officer: DFRC/J BURKEN, DFRC/R CLARKE
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5018 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5910**
RESEARCH IN SUPPORT OF INCREASED HELICOPTER MANUEV ERABILITY AND AGILITY
11/30/1993 – 12/31/1995 FY97: $150 Total: $19,826
Prin. Invest.: N D HAM
Tech. Officer: ARC/R T CHEN
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5116 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5911**
METHODS FOR IN-FLIGHT ROBUSTNESS EVALUATION
02/02/1995 – 05/31/1996 FY97: $0 Total: $39,688
Prin. Invest.: J PADUANO, E FERON
Tech. Officer: DFRC/M J BRENNER
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5170 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5912**
RESEARCH ON HELIPCOPTER BLADE MOTION MEASUREMENT & STABILIZATION
02/12/1996 – 12/31/1997 FY97: $9,999 Total: $19,998
Prin. Invest.: P D HAM
Tech. Officer: ARC/M W FLETCHER
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 3 265 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5913**
MIT ENGINEERING INTERNSHIP PROGRAM
05/20/1992 – 05/31/1998 FY97: $28,952 Total: $266,978
Prin. Invest.: J L KERREBROCK
Tech. Officer: LERC/S A APP
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 3 414 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5914**
LOBED MIXER OPTIMIZATION FOR ADVANCED EJECTOR GEOMETRICS
05/09/1995 – 01/31/1998 FY97: $66,906 Total: $251,882
Prin. Invest.: I A WAITZ, E N GREITZER, C S TAN
Tech. Officer: LERC/J R DEBONIS
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 3 438 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5915**
APPLICATION OF BAYESIAN-VALIDATED COMPUTER SIMULATION SURROGATES TO THE OPTIMIZATION OF SPACE AND TI
10/23/1995 – 07/31/1997 FY97: $0 Total: $20,000
Prin. Invest.: A J PATERA
Tech. Officer: LERC/A CHAIT
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 4 102 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5916**
ADVANCED TECHNIQUES FOR FLUTTER CLEARANCE NEW AWARD
11/08/1995 – 10/31/1997 FY97: $75,847 Total: $150,847
Prin. Invest.: J D PADUANO, E FERON, NONE
Tech. Officer: DFRC/M J BRENNER
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 4 106 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5917**
CALIBRATION OF A REAL-TIME FLUSH AIRDATA SENSING SYSTEM
05/22/1996 – 08/31/1996 FY97: -$772 Total: $14,915
Prin. Invest.: J PERAIRE
Tech. Officer: DFRC/S A WHITEMORE
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 5 212 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5918**
STUDENT RESEARCH ASSISTANTSHIPS FOR THE GODDARD/MI GEO-SCIENCE
07/08/1997 – 06/30/1998 FY97: $150,000 Total: $150,000
Prin. Invest.: T H JORDAN
Tech. Officer: GSFC/D E SMITH
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 5 239 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5919**
EAMINE AND CONFIRM THE APPROPRIATENESS OF THE STUD IMP 8 PLASMA KEY PARAMETERS.
09/12/1997 – 09/14/1998 FY97: $24,902 Total: $24,902
Prin. Invest.: D LAZARUS
Tech. Officer: GSFC/R KESSEL
CASE Category: 13 – PHYSICS

NCC 9 63 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5920**
CONTROL OF FLEXIBLE CONSTRUCTION SYSTEM
08/28/1997 – 09/30/1997 FY97: $98,991 Total: $98,991
Prin. Invest.: D W MILLER
Tech. Officer: JSC/C PARRA
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 10032 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5921**
SPACE ENGINEERING RESEARCH CENTER (SERC)
12/16/1994 – 09/30/1998 FY97: $0 Total: $331,602
Prin. Invest.: E F CRAWLEY
Tech. Officer: HQ/V BITTINGER
CASE Category: 46 – MECHANICAL ENGR

NGT 30232 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5922**
GLOBAL CHANGE FELLOWSHIP AWARD
10/05/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: C CHRYSSOSTOMIAIS
Tech. Officer: HQ/F MULLER-KARGER, HQ/G ASRAR
CASE Category: 33 – OCEANOGRAPHY

NGT 30251 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5923**
GLOBAL CHANGE FELLOWSHIP AWARD
10/06/1994 – 08/31/1997 FY97: $22,000 Total: $66,000
Prin. Invest.: R PLUMB
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 30284 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5924**
GLOBAL CHANGE FELLOWSHIP AWARD
10/06/1994 – 12/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: E A BOYLE
Tech. Officer: HQ/R A SCHIFFER, HQ/G ASRAR
CASE Category: 33 – OCEANOGRAPHY

NGT 30309 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5925**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/31/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: C WUNSCH
Tech. Officer: HQ/G ASRAR, HQ/M BALTUCK
CASE Category: 33 – OCEANOGRAPHY

NGT 40001 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5926**
NATIONAL SPACE GRANT COLLEGE
10/10/1989 – 05/31/1997 FY97: $0 Total: $2,556,903
Prin. Invest.: L R YOUNGNGS
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51069 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5927**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/19/1993 – 06/30/1996 FY97: $0 Total: $66,000
Prin. Invest.: J SZEKELY
Tech. Officer: HQ/B CARPENTER
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 51228 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5928**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/25/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: D J NEWMAN
Tech. Officer: JSC/S GOLDSTEIN
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51369 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5929**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/06/1994 – 06/30/1996 FY97: $0 Total: $44,000
Prin. Invest.: W H LEWIN
Tech. Officer: MSFC/F SIX
CASE Category: 13 – PHYSICS

NGT 51407 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5930**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/17/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: L W MCKNIGHT
Tech. Officer: HQ/D HOLLAND
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90149 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5931**
NGT-90149/MASS INST TECH/UNDERGRADUATE STUDENT RESEARCH PROGRAM/UMF
11/13/1992 – 08/14/1996 FY97: $0 Total: $48,000
Prin. Invest.: L OSGOOD
Tech. Officer: HQ/M MATEU
CASE Category: 43 – CHEMICAL ENGR

NGT 90208 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5932**
UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
09/16/1993 – 08/14/1996 FY97: $0 Total: $36,000
Prin. Invest.: J JACKSON
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90209 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5933**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
09/16/1993 – 08/14/1996 FY97: $0 Total: $36,000
Prin. Invest.: L OSGOOD
Tech. Officer: HQ/D K RUSSELL
CASE Category: 42 – ASTRONAUTICAL ENGR

NGT 90210 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5934**
UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
09/16/1993 – 08/14/1996 FY97: $0 Total: $36,000
Prin. Invest.: L OSGOOD
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90211 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5935**
UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
09/14/1993 – 08/14/1996 FY97: –$100 Total: $35,900
Prin. Invest.: J JACKSON
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90213 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5936**
UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
09/16/1993 – 08/14/1996 FY97: –$6,000 Total: $30,000
Prin. Invest.: D WILSON
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 2 52206 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5937**
VISUAL VESTIBUALR RESPONSE TO LINEAR ACCELERATION
09/14/1995 – 07/31/1996 FY97: –$167 Total: $21,833
Prin. Invest.: C WALL, A ASSAD
Tech. Officer: ARC/D L TOMKO, ARC/M M COHEN
CASE Category: 56 – MEDICL

NGT 3 52305 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5938**
GRADUATE STUDENT RESEARCHRS PROGRAM
07/31/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: M MARTINEZ–SANCHEZ
Tech. Officer: LERC/F M CURRAN
CASE Category: 42 – ASTRONAUTICAL ENGR

NGT 3 52307 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5939**
GRADUATE STUDENT RESEARCHERS PROGRAM – UNDERREPRES ENTED MINORITY AND DISABLE FOCUS
07/31/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: R E COHEN
Tech. Officer: LERC/L SHAW
CASE Category: 43 – CHEMICAL ENGR

NGT 5 4 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5940**
ACTUATORS FOR CONTROL OF MICRO–SATELLITES
06/22/1995 – 06/30/1997 FY97: $22,000 Total: $66,000
Prin. Invest.: J L KERREBROCK
Tech. Officer: GSFC/G A SOFFEN, GSFC/D R SKILLMAN
CASE Category: 42 – ASTRONAUTICAL ENGR

NGT 5 25 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5941**
DESIGN AND FABRICATION OF MEMS – BASED SPACECRAFT PROPULSION SYSTEM
07/15/1996 – 07/31/1997 FY97: $22,000 Total: $44,000
Prin. Invest.: K BREUER
Tech. Officer: GSFC/G A SOFFEN, GSFC/D ASATO
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 57 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5942**
AN X–RAY SPECTROSCOPIC STUDY OF ELEMENTAL ABUNDANC 0 SYSTEM WITH ASCA
08/27/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: G W CLARK
Tech. Officer: GSFC/M S BURRELL
CASE Category: 11 – ASTRONOMY

NGT 5 30084 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5943**
THIRD YEAR: "A SPECTRAL REPRESENTATION OF THE NAT THE OCEAN" GSRP RECIPIENT: MICHAEL Y. CHECHELNI
09/10/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: C WUNSCH
Tech. Officer: HQ/G ASRAR
CASE Category: 49 – ENGINEERING, OTHER

NGT 5 40048 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5944**
NATIONAL SPACE GRANT_COLLEGE AND FELLOWSHIP PROGRA
01/24/1997 – 01/31/1998 FY97: $414,999 Total: $414,999
Prin. Invest.: L R YOUNG
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50037 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5945**
INTERNET ECONOMICS AND INTEROPERABILITY
08/15/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: L MCKIGHT/BAILEY
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90065 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5946**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
03/17/1997 – 08/14/1997 FY97: $48,000 Total: $48,000
Prin. Invest.: L OSGOOD
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 8 52816 MASSACHUSETTS INSTITUTE OF TECHNOLOGY **5947**
GRADUATE STUDENT RESEARCH PROGRAM
07/25/1996 – 08/31/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: J M KOMMERS
Tech. Officer: MSFC/G FISHMAN
CASE Category: 13 – PHYSICS

NAG 5 6132 MT HOLYOKE COLLEGE **5948**
SUMMERMATH FOR MINORITY GIRLS. PROPOSED PERIOD OF 01/01/97–12/31/97
08/13/1997 – 12/31/1997 FY97: $117,541 Total: $117,541
Prin. Invest.: C MORROW
Tech. Officer: GSFC/M STOUTSENBERGER
CASE Category: 21 – MATHEMATICS

NAGW 1792 MT HOLYOKE COLLEGE **5949**
SUMMER MATH PROGRAM FOR MINORITY GIRLS
06/30/1989 – 12/31/1997 FY97: $0 Total: $653,720
Prin. Invest.: J MORROW, C MORROW
Tech. Officer: HQ/B L WHITE, HQ/L WARREN
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 8 1254 NORTHEASTERN UNIVERSITY **5950**
THE ROLE OF DYNAMIC NUCLEATION AT MOVING BOUNDRIES IN PHASE AND MICROSTRUCTURE SELECTION
05/10/1996 – 05/09/1998 FY97: $75,000 Total: $225,000
Prin. Invest.: A KARMA, R TRIVEDI
Tech. Officer: MSFC/C R TALLEY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NASW 96014 NORTHEASTERN UNIVERSITY **5951**
WRITE NASA HISTORY
06/13/1996 – 12/31/1997 FY97: $53,749 Total: $153,749
Prin. Invest.: W KAY
Tech. Officer: HQ/R D LAUNIUS
CASE Category: 73 – HISTORY

NCC 8 139 NORTHEASTERN UNIVERSITY **5952**
RESEARCH "CENTER FOR ADVANCED MICROGRAVITY MATERIALS PROCESSING (CAMMP)"
06/27/1997 – 10/31/1997 FY97: $400,000 Total: $400,000
Prin. Invest.: A SACCO
Tech. Officer: MSFC/M NALL
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 4972 TUFTS UNIVERSITY **5953**
VLA/SOHO INVESTIGATIONS OF THE SOLAR ATMOSPHERE
06/23/1997 – 01/31/1998 FY97: $45,000 Total: $45,000
Prin. Invest.: P R LANG
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NAG 5 6269 TUFTS UNIVERSITY **5954**
VLA OBSERVATIONS IN SUPPORT OF NASA SOLAR PHYSICS
08/21/1997 – 07/31/1998 FY97: $45,000 Total: $45,000
Prin. Invest.: P R LANG
Tech. Officer: GSFC/W G WAGNER
CASE Category: 13 – PHYSICS

NAG 8 1167 TUFTS UNIVERSITY **5955**
RESEARCH EVOLUTION OF CRYSTAL & AMORPHOUS PHASE STRUCTURE
12/06/1995 – 02/28/1998 FY97: $44,735 Total: $102,552
Prin. Invest.: P CEBE
Tech. Officer: MSFC/B G PENN
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 8 1311 TUFTS UNIVERSITY **5956**
JOVE RESEARCH
01/21/1997 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: K P LENTL
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 22 – COMPUTER SCIENCE

NAGW 2383 TUFTS UNIVERSITY **5957**
OBSERVATIONS OF SOLAR ACTIVITY AT RADIO WAVELENGTH S IN SUPPORT OF NASA BALLOON AND SATELLITE MISSIO
03/18/1991 – 08/31/1997 FY97: $0 Total: $471,788
Prin. Invest.: K LANG
Tech. Officer: HQ/W J WAGNER, HQ/G L WITHBROE
CASE Category: 13 – PHYSICS

NAGW 4677 TUFTS UNIVERSITY **5958**
VERY LARGE ARRAY AND RATAN 600 OBSERVATIONS IN SUPPORT OF THE CORONAS–I MISSION
08/18/1995 – 08/31/1996 FY97: $0 Total: $84,310
Prin. Invest.: K R LANG
Tech. Officer: HQ/W J WAGNER, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 5136 TUFTS UNIVERSITY **5959**
RADIO STUDIES OF THE SOLAR CORONA IN SUPPORT OF NA SA MISSIONS
07/25/1996 – 07/31/1998 FY97: $0 Total: $76,000
Prin. Invest.: K R LANG
Tech. Officer: HQ/W J WAGNER, HQ/G L WITHBROE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAS 3 97002 TUFTS UNIVERSITY **5960**
NRA CONTRACT "HEAT CONDUCTIONS IN CERAMIC COATINGS RELATIONSHIP/MICROSTRUCTURE & EFF. THERMAL COND.
11/07/1996 – 11/07/1997 FY97: $79,374 Total: $79,374
Prin. Invest.: M KACHANOV
Tech. Officer: LERC/R A MILLER
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 2 918 TUFTS UNIVERSITY **5961**
EDUCATION, TRAINING & LIFELONG LEARNING IN AERONAU TICS
07/26/1995 – 12/31/1997 FY97: $248,834 Total: $456,512
Prin. Invest.: C B ROGERS
Tech. Officer: ARC/M J LEON, ARC/W C LIKENS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 3 479 TUFTS UNIVERSITY **5962**
DECOUPLING THE ROLE OF INERIA AND GRAVITY ON PARTI CL DISPERSION
06/01/1996 – 05/31/2000 FY97: $39,750 Total: $145,452
Prin. Invest.: C ROGERS
Tech. Officer: LERC/T K GLASGOW
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 5 50050 TUFTS UNIVERSITY **5963**
CONTROL OF PARTICLE CONCENTRATION FIELD IN MICROGR
08/12/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: C B ROGERS
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 1358 UNIV OF MASSACHUSETTS @ WORCESTER **5964**
R/S MICROGRAVITY AND THE BIOLOGY OF NEURAL STEM CELLS
06/19/1997 – 11/30/1997 FY97: $87,000 Total: $87,000
Prin. Invest.: W SCHWARTZ
Tech. Officer: JSC/W SCHWARTZ
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAG 9 819 UNIV OF MASSACHUSETTS @ WORCESTER **5965**
STEM CELL EXPANSION IN ROTATING BIOREACTORS
08/17/1995 – 09/17/1998 FY97: $175,000 Total: $509,000
Prin. Invest.: P J QUESENBERRY
Tech. Officer: JSC/N PELLIS
CASE Category: 56 – MEDICL

NAG 9 820 UNIV OF MASSACHUSETTS @ WORCESTER **5966**
INFLUENCE OF MICROGRAVITY CONDITIONS ON GENE TRANS FER INTO EXPANDED POPULATIONS
08/17/1995 – 09/17/1998 FY97: $215,000 Total: $630,000
Prin. Invest.: F M STEWART
Tech. Officer: JSC/N PELLIS
CASE Category: 56 – MEDICL

NAG 8 1145 UNIVERSITY OF MASSACHUSETTS **5967**
ALYZHEIMER'S DISEASE AMYLOID IN BICROGRAVITY
08/03/1995 – 08/02/1996 FY97: $0 Total: $148,962
Prin. Invest.: D KIRSCHINGER
Tech. Officer: MSFC/L KURR, MSFC/D C CARTER
CASE Category: 59 – LIFE SCIENCE, OTHER

NGT 51217 UNIVERSITY OF MASSACHUSETTS **5968**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/19/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: G G GRINSTEIN
Tech. Officer: SSC/A JOYCE
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1022 UNIVERSITY OF MASSACHUSETTS – AMHERST **5969**
GROUND–BASED MILLIMETER–WAVE MEASUREMENT OF OZONE IN THE MIDDLE ATMOSPHERE
06/19/1989 – 04/30/1998 FY97: $165,441 Total: $1,068,104
Prin. Invest.: A D PARRISH
Tech. Officer: LARC/L E DEAVER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 3 1458 UNIVERSITY OF MASSACHUSETTS – AMHERST **5970**
MODEL–BASED FAULT DIAGNOSIS OF HELICOPTER GEARBOXE S
04/01/1993 – 07/09/1996 FY97: $0 Total: $182,255
Prin. Invest.: K DANAI
Tech. Officer: LERC/D G LEWICKI, LERC/J J ZAKRAJSEK
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1991 UNIVERSITY OF MASSACHUSETTS – AMHERST **5971**
MODEL–BASED SENSOR SELECTION FOR HELICOPTER GEARBO X MONITORING
11/18/1996 – 11/17/1997 FY97: $67,306 Total: $67,306
Prin. Invest.: K DANAI
Tech. Officer: LERC/D G LEWICKI
CASE Category: 46 – MECHANICAL ENGR

NAG 5 2873 UNIVERSITY OF MASSACHUSETTS – AMHERST **5972**
EXCITATION AND EVOLUTION OF STRUCTURE IN GALAXIES
01/23/1995 – 08/31/1996 FY97: $0 Total: $35,000
Prin. Invest.: M D WEINBERG
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3011 UNIVERSITY OF MASSACHUSETTS – AMHERST **5973**
DISCOVERY OF SUPERSOFT X–RAY SOURCES FROM ROSAT POINTED OBSERVATIONS
07/19/1995 – 07/31/1997 FY97: $0 Total: $84,100
Prin. Invest.: S A RAPPAPORT
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3013 UNIVERSITY OF MASSACHUSETTS – AMHERST **5974**
AN INVESTIGATION OF THE COLD INTERSTELLAR MEDIUM OF THE OUTER GALAXY
07/18/1995 – 07/31/1997 FY97: $0 Total: $80,200
Prin. Invest.: M H HEYER
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3653 UNIVERSITY OF MASSACHUSETTS – AMHERST **5975**
BOUNDARY CONDITIONS FOR THE PALEOENVIRONMENT:CHEMI PROCESSES IN INTERSTELLARCLOUDS
03/24/1997 – 10/14/1997 FY97: $73,063 Total: $73,063
Prin. Invest.: D M IRVINE
Tech. Officer: GSFC/M MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 3789 UNIVERSITY OF MASSACHUSETTS – AMHERST **5976**
COMPARISON OF SEAFLOOR AND VENUSIAN PANCAKE DOMES
03/07/1997 – 10/31/1997 FY97: $35,000 Total: $35,000
Prin. Invest.: G E MCGILL
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3922 UNIVERSITY OF MASSACHUSETTS – AMHERST **5977**
ORIGIN OF QUASAR ABSORPTION LINES IN A COSMOLOGICA
03/24/1997 – 03/31/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: N KATZ
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4064 UNIVERSITY OF MASSACHUSETTS – AMHERST **5978**
A THEORETICAL STUDY OF PROCESSES DRIVING THE FORMA
03/18/1997 – 03/31/1998 FY97: $48,478 Total: $48,478
Prin. Invest.: N KATZ
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4272 UNIVERSITY OF MASSACHUSETTS – AMHERST **5979**
A CRYOGENIC FREQUENCY MULTIPLIER CHAIN FOR 1000 GH
04/18/1997 – 03/31/1998 FY97: $72,998 Total: $72,998
Prin. Invest.: D R ERICKSON
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 4373 UNIVERSITY OF MASSACHUSETTS – AMHERST **5980**
PLANETARY, TECTONICS, AREAL GEOLOGY, AND GEOLOGICA
04/25/1997 – 01/31/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: D E MCGILL
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4652 UNIVERSITY OF MASSACHUSETTS – AMHERST **5981**
SHOCK AND THERMAL HISTORY OF IRON AND CHONDRITIC M
06/11/1997 – 02/28/1998 FY97: $149,000 Total: $149,000
Prin. Invest.: D I GOLDSTEIN
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4743 UNIVERSITY OF MASSACHUSETTS – AMHERST **5982**
MILLIMETER-WAVE AND RADIO STUDIES OF SOLAR SYSTEM
06/04/1997 – 05/31/1998 FY97: $55,000 Total: $55,000
Prin. Invest.: D SCHLOERB
Tech. Officer: GSFC/W HUEBNER
CASE Category: 11 – ASTRONOMY

NAG 5 4999 UNIVERSITY OF MASSACHUSETTS – AMHERST **5983**
STRUCTURAL AND GEOMORPHIS EVOLUTION OF THE MARTIAN
07/24/1997 – 07/14/1998 FY97: $40,392 Total: $40,392
Prin. Invest.: G MCGILL
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 6028 UNIVERSITY OF MASSACHUSETTS – AMHERST **5984**
PLANAR SUBMILLIMETER MIXER AND MULTIPLIER DEVELOPM
09/11/1997 – 09/14/1998 FY97: $29,847 Total: $29,847
Prin. Invest.: N ERICKSON
Tech. Officer: GSFC/G CHIN
CASE Category: 11 – ASTRONOMY

NAG 5 6161 UNIVERSITY OF MASSACHUSETTS – AMHERST **5985**
UMASS PLANET EARTH EDUCATION PROGRMS
08/01/1997 – 07/31/1998 FY97: $20,000 Total: $20,000
Prin. Invest.: M STERNHEIM
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 9 848 UNIVERSITY OF MASSACHUSETTS – AMHERST **5986**
GAS EXCHANGE & DEVELOPMENT OF PLANTS IN REDUCED PRESSURE & VARIED OXYGEN ATMOSPHERES
09/25/1995 – 09/30/1997 FY97: $0 Total: $25,000
Prin. Invest.: K A COVEY
Tech. Officer: JSC/D G SICKOREZ
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 436 UNIVERSITY OF MASSACHUSETTS – AMHERST **5987**
BOUNDARY CONDITIONS FOR THE PALEOENVIRONMENT: CHEMICAL AND PHYSICAL PROCESSES IN THE PRE-SOLAR NEBUL
02/15/1983 – 06/30/1997 FY97: $0 Total: $777,075
Prin. Invest.: W M IRVINE, F P SCHLOERB
Tech. Officer: HQ/J D RUMMEL, HQ/M AVERNER
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1483 UNIVERSITY OF MASSACHUSETTS – AMHERST **5988**
STUDIES IN RADIATIVE TRANSFER
11/02/1988 – 05/31/1997 FY97: $0 Total: $500,051
Prin. Invest.: F P SCHLOERB
Tech. Officer: HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NAGW 1659 UNIVERSITY OF MASSACHUSETTS – AMHERST **5989**
FOCAL PLANE ARRAYS FOR SUBMILLIMETER WAVES USING
02/01/1989 – 03/31/1997 FY97: $0 Total: $401,613
Prin. Invest.: K S YNGVESSON
Tech. Officer: HQ/J K ALEXANDER, HQ/D A HOLLAND
CASE Category: 45 – ELECTRICAL ENGR

NAGW 1935 UNIVERSITY OF MASSACHUSETTS – AMHERST **5990**
STUDY PHASE FOR A NEW 2 MICRON SKY SURVEY
02/06/1990 – 06/30/1997 FY97: $0 Total: $1,786,348
Prin. Invest.: M SKRUTSKIE
Tech. Officer: HQ/G S LEVY
CASE Category: 11 – ASTRONOMY

NAGW 1965 UNIVERSITY OF MASSACHUSETTS – AMHERST **5991**
NAGW-1965/UNIV OF MASSACHUSETTS/PLANETARY TECTONIC S, AREAL GEOLOGY, AND GEOLOGICAL HISTORY
01/24/1990 – 09/30/1997 FY97: $0 Total: $279,528
Prin. Invest.: G E MCGILL
Tech. Officer: HQ/T A MAXWELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1989 UNIVERSITY OF MASSACHUSETTS – AMHERST **5992**
MICROBIAL CONTRIBUTIONS TO THE PRECAMBRIAN EARTH
04/27/1990 – 09/30/1997 FY97: $0 Total: $599,409
Prin. Invest.: L MARGOLIS
Tech. Officer: HQ/J D RUMMELT
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 3685 UNIVERSITY OF MASSACHUSETTS – AMHERST **5993**
RADAR ALTIMETRY STUDIES OVER THE GREENLAND ICE SHE ET: EXPERIMENT AND ANALYSIS
07/16/1993 – 11/30/1996 FY97: $0 Total: $284,154
Prin. Invest.: C T SWIFT
Tech. Officer: HQ/R H THOMAS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3809 UNIVERSITY OF MASSACHUSETTS – AMHERST **5994**
THE RADIAL DISTRIBUTION OF INFRARED LUMINOSITY IN LARGE SPIRAL GALAXIES
12/17/1993 – 08/31/1996 FY97: $0 Total: $81,770
Prin. Invest.: J YOUNG
Tech. Officer: HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 4263 UNIVERSITY OF MASSACHUSETTS – AMHERST **5995**
COMPARISON OF SEAFLOOR AND VENUSIAN PANCAKE DOMES
01/25/1995 – 10/31/1996 FY97: $0 Total: $69,998
Prin. Invest.: G MCGILL
Tech. Officer: HQ/H BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 4514 UNIVERSITY OF MASSACHUSETTS – AMHERST **5996**
SHOCK AND THERMAL HISTORY OF IRON AND CHONDRITIC M ETEORITES
07/12/1995 – 02/28/1997 FY97: $0 Total: $297,262
Prin. Invest.: J GOLDSTEIN
Tech. Officer: HQ/D NAVA
CASE Category: 42 – ASTRONAUTICAL ENGR

NAGW 4891 UNIVERSITY OF MASSACHUSETTS – AMHERST **5997**
LOW NOISE HOT ELECTRON HETERODYNE RECEIVERS FOR TH E THZ REGION
12/18/1995 – 12/31/1996 FY97: $0 Total: $80,024
Prin. Invest.: K S YNGVESSON
Tech. Officer: HQ/L J CAROFF, HQ/M D BICAY
CASE Category: 11 – ASTRONOMY

NAS 5 31757 UNIVERSITY OF MASSACHUSETTS – AMHERST **5998**
DEVELOPMENT OF SYNTHETIC APERTURE RADIOMETER
12/16/1992 – 06/30/1996 FY97: $0 Total: $310,956
Prin. Invest.: C SWIFT
Tech. Officer: GSFC/D LEVINE
CASE Category: 46 – MECHANICAL ENGR

NCCW 67 UNIVERSITY OF MASSACHUSETTS – AMHERST **5999**
A 2 MICRON ALL SKY SURVEY
02/07/1995 – 07/01/1998 FY97: $0 Total: $2,508,500
Prin. Invest.: M SKRUTSKIE
Tech. Officer: HQ/L LAPIANA
CASE Category: 11 – ASTRONOMY

NGT 51277 UNIVERSITY OF MASSACHUSETTS – AMHERST **6000**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/14/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: R E MCINTOSH
Tech. Officer: JPL/C HIX
CASE Category: 45 – ELECTRICAL ENGR

NGT 51282 UNIVERSITY OF MASSACHUSETTS – AMHERST **6001**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/26/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: K A COREY
Tech. Officer: HQ/G LESANE
CASE Category: 55 – AGRICULTURE

NGT 70358 UNIVERSITY OF MASSACHUSETTS – AMHERST **6002**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
08/31/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: W B CROFT
Tech. Officer: HQ/D K RUSSELL
CASE Category: 22 – COMPUTER SCIENCE

NAG13 48 UNIVERSITY OF MASSACHUSETTS–DARTHMOUTH **6003**
ADVANCED FISHERIES MANAGEMENT INFORMATION SYSTEM
04/23/1997 – 05/31/1998 FY97: $250,000 Total: $250,000
Prin. Invest.: B ROTHSCHILD
Tech. Officer: SSC/C HILL
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 2 814 WELLESLEY COLLEGE **6004**
EARTH–BASED RING OCCULTATION
12/01/1992 – 06/30/1996 FY97: $0 Total: $45,674
Prin. Invest.: R G FRENCH
Tech. Officer: ARC/J N CUZZI
CASE Category: 11 – ASTRONOMY

NAG 5 4046 WELLESLEY COLLEGE **6005**
STRUCTURE AND DYNAMICS OF PLANETARY RINGS
03/10/1997 – 09/30/1997 FY97: $42,000 Total: $42,000
Prin. Invest.: R G FRENCH
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 6222 WELLESLEY COLLEGE **6006**
HIGH–RESOLUTION LABORATORY MEASUREMENTS OF UV ABSO AND LINE WIDTHS FOR SO2 AND N2
08/25/1997 – 06/30/1998 FY97: $47,500 Total: $47,500
Prin. Invest.: D STARK
Tech. Officer: GSFC/S HOWARD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 1368 WELLESLEY COLLEGE **6007**
DYNAMICS AND STRUCTURE OF PLANETARY RINGS
07/11/1988 – 09/30/1997 FY97: –$366 Total: $367,734
Prin. Invest.: R G FRENCH
Tech. Officer: HQ/J UNDERWOOD, HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 5200 WELLESLEY COLLEGE **6008**
HIGH RESOLUTION LAB MEASUREMENTS OF UV ABSORPTION CROSS SECTIONS & LINE WIDTHS FOR S02 & N2
09/26/1996 – 06/30/1997 FY97: $55,572 Total: $55,572
Prin. Invest.: G STARK
Tech. Officer: HQ/J BERGSTRALH, HQ/H C BRINTON
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 2884 WOODS HOLE OCEANOGRAPHIC INSTITUTION **6009**
EOSDIS CORE SYSTEM USABILITY TEST
02/08/1995 – 02/14/1997 FY97: $20,000 Total: $256,407
Prin. Invest.: D M GLOVER
Tech. Officer: GSFC/K R MCDONALD
CASE Category: 33 – OCEANOGRAPHY

NAG 5 3752 WOODS HOLE OCEANOGRAPHIC INSTITUTION **6010**
SEARCHING FOR NATURAL MASS FRACTIONATION OF MOLYBD
11/18/1996 – 08/31/1997 FY97: $70,000 Total: $70,000
Prin. Invest.: G E RAVIZZA
Tech. Officer: GSFC/D HOLLAND
CASE Category: 12 – CHEMISTRY

NAG 5 4812 WOODS HOLE OCEANOGRAPHIC INSTITUTION **6011**
THE DEVELOPMENT OF A GENERAL CIRCULATION MODEL FOR OCEANIC FORECASTING AND CLIMATE STUDY
06/19/1997 – 06/14/1998 FY97: $95,000 Total: $95,000
Prin. Invest.: D HUANG
Tech. Officer: GSFC/E J LINDSTROM
CASE Category: 33 – OCEANOGRAPHY

NAG 5 4847 WOODS HOLE OCEANOGRAPHIC INSTITUTION **6012**
BIOGEOCHEMICAL FLUXES AT THE OCEAN/ATMOSPHERE INTE
06/23/1997 – 06/30/1998 FY97: $322,973 Total: $322,973
Prin. Invest.: D GOYET
Tech. Officer: GSFC/G ASRAR
CASE Category: 33 – OCEANOGRAPHY

NAGW 2431 WOODS HOLE OCEANOGRAPHIC INSTITUTION **6013**
BIOGEOCHEMICAL FLUXES AT THE OCEAN/ATMOSPHERE INTE RFACE
04/25/1991 – 12/31/1997 FY97: $0 Total: $4,488,150
Prin. Invest.: P G BREWER
Tech. Officer: HQ/B MITCHELL
CASE Category: 33 – OCEANOGRAPHY

NAGW 3648 WOODS HOLE OCEANOGRAPHIC INSTITUTION **6014**
A COUPLED BIOLOGICAL-PHYSICAL MODEL FOR STUDYING A NNUAL AND INTER-ANNUAL VARIABILITY IN SEAWIFS
07/14/1993 – 12/31/1997 FY97: $0 Total: $369,765
Prin. Invest.: D M GLOVER
Tech. Officer: HQ/R MURPHY
CASE Category: 33 – OCEANOGRAPHY

NAGW 4331 WOODS HOLE OCEANOGRAPHIC INSTITUTION **6015**
DEVELOPMENT OF A GENERAL CIRCULATION MODEL FOR OCEANIC FORCASTING AND CLIMATESTUDY
03/04/1995 – 05/31/1997 FY97: $0 Total: $190,000
Prin. Invest.: R XIN HUANG
Tech. Officer: HQ/R A SCHIFFER
CASE Category: 33 – OCEANOGRAPHY

NAGW 4709 WOODS HOLE OCEANOGRAPHIC INSTITUTION **6016**
UPWELLING-INDUCED PRIMARY PRODUCTIVITY IN COASTAL WATERS OF THE BLACK SEA
09/16/1995 – 07/31/1997 FY97: $29,538 Total: $369,538
Prin. Invest.: J C GOLDMAN, K H BRINK, G C GAWARKIEWICZ
Tech. Officer: HQ/M BALTUCK
CASE Category: 13 – PHYSICS

NAGW 4720 WOODS HOLE OCEANOGRAPHIC INSTITUTION **6017**
SEARCHING FOR NATURAL MASS FRACTIONATION OF MOLYBD ENUM ISOTOPES
08/24/1995 – 08/31/1997 FY97: $0 Total: $70,000
Prin. Invest.: G E RAVIZZA
Tech. Officer: HQ/D A HOLLAND, HQ/J H BREDEKAMP
CASE Category: 12 – CHEMISTRY

NAGW 4765 WOODS HOLE OCEANOGRAPHIC INSTITUTION **6018**
SPATIAL AND TEMPORAL VARIABILITY OF DMS IN OLIGOTHOPIC SURFACE WATERS
10/10/1995 – 01/31/1997 FY97: $0 Total: $121,184
Prin. Invest.: J H DACEY
Tech. Officer: HQ/M BALTUCK
CASE Category: 33 – OCEANOGRAPHY

NAGW 4806 WOODS HOLE OCEANOGRAPHIC INSTITUTION **6019**
GYRE-SCALE CIRCULATION AND COUPLING IN THE NORTH A TLANTIC AND NORTH PACIFIC OCEANS
10/18/1995 – 06/30/1997 FY97: $0 Total: $110,000
Prin. Invest.: M CARVSO
Tech. Officer: HQ/M BALTUCK
CASE Category: 33 – OCEANOGRAPHY

NAGW 5217 WOODS HOLE OCEANOGRAPHIC INSTITUTION **6020**
BIOLOGICAL INTERPRETATION OF OCEAN COLOR
11/04/1996 – 06/30/1998 FY97: $195,658 Total: $195,658
Prin. Invest.: H M SOSIK
Tech. Officer: HQ/G ASRAR, HQ/R C HARRISS
CASE Category: 33 – OCEANOGRAPHY

NAG 1 1606 WORCESTER POLYTECHNIC INSTITUTE **6021**
ANALYSIS OF RUNWAY SURFACE TOPOGRAPHIES FOR CONCURRENT ENGINEERING DESIGN
02/22/1994 – 01/21/1998 FY97: $1 Total: $193,520
Prin. Invest.: C A BROWN
Tech. Officer: LARC/R H DAUGHERTY
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1873 WORCESTER POLYTECHNIC INSTITUTE **6022**
MODELING OF PULSED PLASMA THRUSTER PLUMES
05/22/1996 – 11/30/1997 FY97: $38,392 Total: $53,212
Prin. Invest.: D A GATSOMIS
Tech. Officer: LERC/E J PENCIL
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 8 1255 WORCESTER POLYTECHNIC INSTITUTE **6023**
MODELING OF MACROSCOPIC/MICROSCOPIC TRANSPORT AND GROWTH PHENOMENA
05/30/1996 – 05/31/1998 FY97: $45,500 Total: $138,339
Prin. Invest.: A SACCO
Tech. Officer: MSFC/C R TALLEY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAS 8 40222 WORCESTER POLYTECHNIC INSTITUTE **6024**
USML 2 PAYLOAD SPECIALIST
07/06/1994 – 09/30/1996 FY97: -$31,234 Total: $417,642
Prin. Invest.: A SACCO
Tech. Officer: MSFC/P GILBERT
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAS 8 40260 WORCESTER POLYTECHNIC INSTITUTE **6025**
ZEOLITE CRYSTAL GROWHT
12/15/1994 – 03/31/1997 FY97: $0 Total: $1,328,762
Prin. Invest.: A SACCO,JR.
Tech. Officer: MSFC/M NALL
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NGT 51107 WORCESTER POLYTECHNIC INSTITUTE **6026**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/28/1993 – 04/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: C A BROWN
Tech. Officer: LARC/E PRIOR
CASE Category: 46 – MECHANICAL ENGR

MICHIGAN

NAG 8 999 ALMA COLLEGE **6027**
JOVE
11/01/1993 – 12/31/1996 FY97: $0 Total: $75,000
Prin. Invest.: J E DAVIS, STRAIT
Tech. Officer: MSFC/F SIX
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3208 DELTA COLLEGE **6028**
NAGW-3208/DELTA COLLEGE/DELTA COLLEGE SCIENCE LEARNING CENTER
09/17/1992 – 05/31/1997 FY97: $0 Total: $8,750,000
Prin. Invest.: H ARMAN
Tech. Officer: HQ/M PHELPS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 3073 EASTERN MICHIGAN UNIVERSITY **6029**
TEACHER TRAINING PRE-SERVICE PILOT PROGRAM
05/29/1992 – 12/31/1996 FY97: $0 Total: $92,421
Prin. Invest.: J BARNES
Tech. Officer: HQ/D GALLAWAY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 1 1480 HOPE COLLEGE **6030**
BUILDING A SOFTWARE INFRASTRUCTURE FOR PARALLEL SOFTWARE DESIGNNLPN 92-910
02/23/1993 – 06/30/1996 FY97: -$603 Total: $83,031
Prin. Invest.: M J-JIPPING
Tech. Officer: LARC/D E ECKHARDT
CASE Category: 22 – COMPUTER SCIENCE

NAG 8 263 HOPE COLLEGE **6031**
JOVE
11/09/1992 – 09/01/1996 FY97: -$606 Total: $84,882
Prin. Invest.: P L GONTHIER, M J JIPPING
Tech. Officer: MSFC/F SIX
CASE Category: 13 – PHYSICS

NAG 1 1591 MICHIGAN STATE UNIVERSITY **6032**
A DISCRETE-LAYER FINITE ELEMENT MODEL FOR STATIC A ND DYNAMIC PROGRESSIVE FAILURE ANALYSIS OF LARGE
01/31/1994 – 07/27/1997 FY97: $0 Total: $132,408
Prin. Invest.: R C AVERILL
Tech. Officer: LARC/A TESSLER
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1271 MICHIGAN STATE UNIVERSITY **6033**
AN EXPERIMENTAL THEORETICAL STUDY OF RADIATIVE EXT INCTION OF DIFFUSSION FLAMES
04/15/1991 – 03/24/1996 FY97: -$482 Total: $229,518
Prin. Invest.: A ATREYA, I S WICHMAN
Tech. Officer: LERC/K R SACKSTEDER
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1459 MICHIGAN STATE UNIVERSITY **6034**
TIME RESOLVED MEASUREMENTS OF THE STREAMWISE VORTI VITY IN THE MIXING LAYER FROM A TABBED NOZZLE
02/22/1993 – 08/31/1997 FY97: $0 Total: $145,047
Prin. Invest.: J F FOSS
Tech. Officer: LERC/K Q ZAMAN
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1626 MICHIGAN STATE UNIVERSITY **6035**
STUDIES OF WIND-AIDED FLAME SPREAD OVER THEN CELLU LOSIC FUELS IN MICROGRAVITY
06/22/1994 – 06/21/1998 FY97: $70,000 Total: $259,000
Prin. Invest.: I S WICHMAN
Tech. Officer: LERC/H D ROSS
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1749 MICHIGAN STATE UNIVERSITY **6036**
IMAGE TILING FOR HIGH RESOLUTION SOLID SURFACE PRO FILING
05/26/1995 – 12/24/1997 FY97: $20,000 Total: $60,000
Prin. Invest.: A K JAIN
Tech. Officer: LERC/C R MERCER
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2489 MICHIGAN STATE UNIVERSITY **6037**
STELLAR/SOLAR CONVECTION SIMULATIONS
02/04/1994 – 02/14/1997 FY97: $0 Total: $89,546
Prin. Invest.: R F STEIN
Tech. Officer: GSFC/J R FISCHER
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 3218 MICHIGAN STATE UNIVERSITY **6038**
CCD SYSTEM TECHNOLOGY FOR EXTREMELY LOW BACKGROUND OBSERVATIONS
04/26/1996 – 04/30/1998 FY97: $160,000 Total: $328,000
Prin. Invest.: E D LOH
Tech. Officer: GSFC/E S CHUNG
CASE Category: 13 – PHYSICS

NAG 5 3484 MICHIGAN STATE UNIVERSITY **6039**
ANALYSIS OF MR CYGNI & BETA LYRAE
10/31/1996 – 10/31/1997 FY97: $26,597 Total: $26,597
Prin. Invest.: A P LINNELL
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4031 MICHIGAN STATE UNIVERSITY **6040**
SOLAR CONVECTION AND ATMOSPHERIC DYNAMICS
02/24/1997 – 02/28/1998 FY97: $104,000 Total: $104,000
Prin. Invest.: R F STEIN
Tech. Officer: GSFC/W J WAGNER
CASE Category: 11 – ASTRONOMY

NAG 5 4810 MICHIGAN STATE UNIVERSITY **6041**
ACQUISITION AND ANALYSIS OF LARGE QUANTITIES OF LA MEASURING TROPICAL LAND COVER CHANGE (NRA-MTPE-03
07/30/1997 – 10/31/1997 FY97: $44,947 Total: $44,947
Prin. Invest.: D SKOLE
Tech. Officer: GSFC/D WILLIAMS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6042 MICHIGAN STATE UNIVERSITY **6042**
HIERARCHICAL INVESTIGATION OF SOCIOECONOMIC DRIVER LAND-COVER CHANGES IN THE UPPER MIDWEST
07/23/1997 – 07/31/1998 FY97: $188,996 Total: $188,996
Prin. Invest.: D BROWN
Tech. Officer: GSFC/A JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 1695 MICHIGAN STATE UNIVERSITY **6043**
SOLAR CONVECTOR DYNAMICS & OSCILLATIONS
02/27/1989 – 06/30/1997 FY97: $0 Total: $370,186
Prin. Invest.: R F STEIN
Tech. Officer: HQ/J D BOHLIN, HQ/S KANE
CASE Category: 13 – PHYSICS

NCC 7 2 MICHIGAN STATE UNIVERSITY **6044**
BUILDING COMMUNICATIONS NETWORK
09/02/1994 – 09/02/1997 FY97: $0 Total: $2,196,000
Prin. Invest.: M MOCH, N ALTIERO
Tech. Officer: NMO/A HUSAIN
CASE Category: 22 – COMPUTER SCIENCE

NGT 70376 MICHIGAN STATE UNIVERSITY **6045**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
08/23/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: B H CHENG
Tech. Officer: HQ/D K RUSSELL
CASE Category: 22 – COMPUTER SCIENCE

NGT 5 50150 MICHIGAN STATE UNIVERSITY **6046**
AN INTEGRATED ASSESSMENT OF THE CUMULATIVE IMPACTS ARCTIC DEVELOPMENT
09/11/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: P WEBBER
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT10 52612 MICHIGAN STATE UNIVERSITY **6047**
GRADUATE STUDENT RESEARCH GRANT
09/01/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: C CRIDDLE
Tech. Officer: KSC/G BUCKINGHAM
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 820 MICHIGAN TECHNOLOGICAL UNIVERSITY **6048**
DEVELOPMENT OF A RATIONAL MODELING APPROACH FOR TH E DESIGN, & OPTIMIZATION OF THE MULTIFILTRATION..
12/15/1992 – 12/31/1996 FY97: $0 Total: $242,447
Prin. Invest.: D W HAND, J C CRITTENDEN
Tech. Officer: ARC/J E FINN, ARC/E L FORCE
CASE Category: 43 – CHEMICAL ENGR

NAG 2 1095 MICHIGAN TECHNOLOGICAL UNIVERSITY **6049**
RESEARCH IN HELICOPTER ACOUSTICS: ANALYSIS OF BLA DE VORTEX INTERACTION NOISE
12/06/1996 – 09/30/1997 FY97: $24,914 Total: $24,914
Prin. Invest.: J C ROGERS
Tech. Officer: ARC/C W ACREE, JR., ARC/G K YAMAUCHI
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1659 MICHIGAN TECHNOLOGICAL UNIVERSITY **6050**
THERMAL-SOLUTAL CONVECTION & PARTICULATE TRANSPORT DURING ALLOY SOLIDIFICATION
08/01/1994 – 07/31/1996 FY97: -$11 Total: $106,069
Prin. Invest.: A HELLAWELL
Tech. Officer: LERC/T GLASGOW
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 5 2324 MICHIGAN TECHNOLOGICAL UNIVERSITY **6051**
COMPARISON OF AVHRR AND TOMS IMAGERY OF VOLCANIC C LOUDS
07/14/1993 – 07/31/1997 FY97: $0 Total: $92,917
Prin. Invest.: W I ROSE
Tech. Officer: GSFC/A J KRUEGER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3260 MICHIGAN TECHNOLOGICAL UNIVERSITY **6052**
COMPARISON OF TOMS AND OCTS DATA FOR VOLCANIC CLOU D ANALYSIS
07/01/1996 – 06/30/1997 FY97: $75,000 Total: $175,000
Prin. Invest.: G BLUTH
Tech. Officer: GSFC/A KRUEGAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3279 MICHIGAN TECHNOLOGICAL UNIVERSITY **6053**
NO COST TIME EXTENSION
07/01/1996 – 06/30/1998 FY97: $0 Total: $85,000
Prin. Invest.: R J NEMIROFF
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3689 MICHIGAN TECHNOLOGICAL UNIVERSITY **6054**
COOL STARS ATMOSPHERIC MODELS. COMPUTATIONS OF HIG
01/14/1997 – 01/14/1998 FY97: $45,178 Total: $45,178
Prin. Invest.: A BORYSOW
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4144 MICHIGAN TECHNOLOGICAL UNIVERSITY **6055**
LAKE SUPERIOR ICE FIELD MEASUREMENTS FOR C-BAND SA SIGNATURES & ICE COVER ANALYSIS WITH RADARSAT SAR
04/15/1997 – 03/31/1998 FY97: $42,957 Total: $42,957
Prin. Invest.: D PILANT
Tech. Officer: GSFC/R H THOMAS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4534 MICHIGAN TECHNOLOGICAL UNIVERSITY **6056**
MODELING OF COLLISION INDUCED ABSORPTION SPECTRA O PLANETARY ATMOSPHERE OF VENUS
05/06/1997 – 03/31/1998 FY97: $45,900 Total: $45,900
Prin. Invest.: D BORYSOW
Tech. Officer: GSFC/J BERSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4756 MICHIGAN TECHNOLOGICAL UNIVERSITY **6057**
CONTINUING THE SEARCH FOR GRAVITATIONAL LENSING IN
06/17/1997 – 05/31/1998 FY97: $25,000 Total: $25,000
Prin. Invest.: R J NEMIROFF
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 9 918 MICHIGAN TECHNOLOGICAL UNIVERSITY **6058**
DEVELOPMENT OF UV PHOTOCATALYTIC OXIDATION TECHNOL OGIES
11/15/1996 – 11/14/1997 FY97: $22,977 Total: $22,977
Prin. Invest.: V H SELZER, D W HAND, NONE
Tech. Officer: JSC/J GRAF
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4566 MICHIGAN TECHNOLOGICAL UNIVERSITY **6059**
MODELING OF COLLISION INDUCED ABSORPTION SPECTRA OF CO2-CO2 PAIRS FOR PLANETARY ATMOSPHERE OF VEUUS
06/02/1995 – 10/31/1997 FY97: $40,000 Total: $79,947
Prin. Invest.: A BORYSOW
Tech. Officer: HQ/J BERGSTRALH
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4989 MICHIGAN TECHNOLOGICAL UNIVERSITY **6060**
LAKE SUPERIOR ICE FIELD MEASUREMENTS FOR C-BAND DAR BACKSCATTER SIGNATURES AND ICE COVER ANALYSIS
03/01/1996 – 09/30/1997 FY97: $0 Total: $70,956
Prin. Invest.: D PILANT*Prin. Invest.:* NONE
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 5186 MICHIGAN TECHNOLOGICAL UNIVERSITY **6061**
CONTRIBUTION OF VOLCNAIC ACTIVEITY TO THE ATMOSPHE RIC
09/03/1996 – 03/31/1998 FY97: $0 Total: $37,000
Prin. Invest.: G BLUTH
Tech. Officer: HQ/M BALTUCK, HQ/A C JANETOS
CASE Category: 32 – GEOLOGICAL SCIENCE

NCC 3 406 MICHIGAN TECHNOLOGICAL UNIVERSITY **6062**
NUMERICAL SIMULATION FOR LOW EMISSIONS COMBUSTORS USING KIVA CODE (PHASE V1)
02/10/1995 – 02/09/1996 FY97: $0 Total: $30,000
Prin. Invest.: S L YANG
Tech. Officer: LERC/K P KUNDU
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 30174 MICHIGAN TECHNOLOGICAL UNIVERSITY **6063**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/27/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: W I ROSE
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 30275 MICHIGAN TECHNOLOGICAL UNIVERSITY **6064**
NGT-30275/MI TECHNOLOGICAL UNIV/GLOBAL CHANGE FELLOWSHIP PROGRAM
10/02/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: R E HONRATH, NONE
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 51024 MICHIGAN TECHNOLOGICAL UNIVERSITY **6065**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/14/1993 – 11/30/1996 FY97: $0 Total: $66,000
Prin. Invest.: W C KERFOOT
Tech. Officer: ARC/M MOORE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 5 30028 MICHIGAN TECHNOLOGICAL UNIVERSITY **6066**
THE DYNAMICS OF HUMAN-DRIVEN LAND COVER CHANGE IN
10/23/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: P DEBANKER
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 1 869 UNIVERSITY OF MICHIGAN – ANN ARBOR **6067**
AN ADAPTIVE MULTI-GRID CODE FOR FLUID DYNAMICS BAS ED ON GEN-UINELY MULTI-DIMENSIONAL CONCEPTS
03/25/1988 – 11/30/1997 FY97: $25,000 Total: $615,406
Prin. Invest.: B VAN LEER, K POWELL
Tech. Officer: LARC/J L THOMAS, LARC/J C SOUTH, JR.
CASE Category: 21 – MATHEMATICS

NAG 1 1220 UNIVERSITY OF MICHIGAN – ANN ARBOR **6068**
STUDY OF DESIGN FOR VALIDATION IN DISTRIBUTED FAULT-TOLERENT SYSTEMS
02/14/1991 – 08/31/1996 FY97: $0 Total: $446,709
Prin. Invest.: K G SHIN
Tech. Officer: LARC/A L WHITE
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1315 UNIVERSITY OF MICHIGAN – ANN ARBOR **6069**
CORRELATIVE MEASUREMENT SUPPORT OF THE UPPER ATMOSPHERE RESEARCH SATELLITE (UARS)
07/17/1991 – 01/14/1996 FY97: –$1 Total: $345,000
Prin. Invest.: T L KILLEEN, F G MCCORMAC, R M JOHNSON
Tech. Officer: LARC/J G WELLS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1331 UNIVERSITY OF MICHIGAN – ANN ARBOR **6070**
HIGH RESOLUTION DOPPLER LIDAR MEASUREMENTS – FDP
09/24/1991 – 02/28/1997 FY97: $0 Total: $300,303
Prin. Invest.: V J ABREU, P B MAYS, A K SMITH
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 13 – PHYSICS

NAG 1 1410 UNIVERSITY OF MICHIGAN – ANN ARBOR **6071**
ELECTRORHEOLOGY FOR SMART LANDING GEAR – FDP INCREMENTALLY FUNDED THROUGH DECEMBER 31, 1992
03/20/1992 – 10/31/1995 FY97: –$17,999 Total: $89,154
Prin. Invest.: R D ERVIN, Z LOU, F E FILISKO
Tech. Officer: LARC/W E HOWELL, LARC/R H DAUGHERTY
CASE Category: 46 – MECHANICAL ENGR

NAG 1 1478 UNIVERSITY OF MICHIGAN – ANN ARBOR **6072**
ANALYSIS OF CONFORMAL ANTENNAS IN COMPOSITE SURFACES NLPN 92-1107
02/05/1993 – 12/31/1997 FY97: $56,000 Total: $275,001
Prin. Invest.: J L VOLAKIS
Tech. Officer: LARC/F B BECK
CASE Category: 45 – ELECTRICAL ENGR

NAG 1 1493 UNIVERSITY OF MICHIGAN – ANN ARBOR **6073**
DEVELOPMENT AND OPERATION OF A SOFTWARE FAULT INJECTOR
04/30/1993 – 10/31/1995 FY97: –$457 Total: $93,530
Prin. Invest.: K G SHIN
Tech. Officer: LARC/A L WHITE
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1544 UNIVERSITY OF MICHIGAN – ANN ARBOR **6074**
A FOUR CHANNEL NO/O3 CHEMILUMINESCENCE INSTRUMENT FOR SIMULTANEOUS AIRBORNE MEASUREMENTS OF NITRIC
09/28/1993 – 09/27/1997 FY97: $0 Total: $835,628
Prin. Invest.: M A CARROLL
Tech. Officer: LARC/G L GREGORY, LARC/J M HOELL JR.
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1720 UNIVERSITY OF MICHIGAN – ANN ARBOR **6075**
COMPARISON OF DOUBLE ETALON VS. MULTIPLEXING FABRY-PEROT INTERFEROMETERS FOR DETERMINING TOTAL
05/08/1995 – 03/31/1998 FY97: $67,618 Total: $227,877
Prin. Invest.: W B COOK, P B HAYS
Tech. Officer: LARC/A M LARAR
CASE Category: 31 – ATMOSPHERICSCIENCE

NAG 1 1755 UNIVERSITY OF MICHIGAN – ANN ARBOR **6076**
THE MODELING AND EVALUATION OF THRUST LOSSES AND PER-FORMANCE OF HIGH-SPEED AEROSPACE ENGINES
09/20/1995 – 02/28/1998 FY97: $0 Total: $498,993
Prin. Invest.: D A CARROLL, D ALBER
Tech. Officer: LARC/J M HOELL,JR, LARC/R J BENDURA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 879 UNIVERSITY OF MICHIGAN – ANN ARBOR **6077**
DATA ARCHIVE FOR NOX & NOY FROM OBSERVATIONS & CON STRUCTION & TESTING OF AIRBORNE INSTRUMENT FOR ..
01/10/1994 – 12/31/1995 FY97: –$701 Total: $144,272
Prin. Invest.: M A CARROLL
Tech. Officer: ARC/E CONDON, ARC/A MARGOZZI
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 1129 UNIVERSITY OF MICHIGAN – ANN ARBOR **6078**
DEVELOPMENT OF NUMERICAL EXTENDED HYDRODYNAMICS FO R TRANSMISSION–REGIME NON–EQUILIBRIUM FLOWS.....
05/20/1997 – 08/31/1997 FY97: $50,000 Total: $50,000
Prin. Invest.: C T GROTH, P L ROE
Tech. Officer: ARC/M MEYYAPAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1133 UNIVERSITY OF MICHIGAN – ANN ARBOR **6079**
DROPLET EVAPORATION UNDER MICROGRAVITY
01/31/1990 – 02/26/1997 FY97: $0 Total: $295,682
Prin. Invest.: V S ARPACI
Tech. Officer: LERC/A T CHAI
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1245 UNIVERSITY OF MICHIGAN – ANN ARBOR **6080**
THE INVESTIGATION OF LAMINAR JET DIFFUSION FLAMES
03/01/1991 – 04/24/1997 FY97: $0 Total: $937,569
Prin. Invest.: G M FAETH
Tech. Officer: LERC/D STOCKER
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1310 UNIVERSITY OF MICHIGAN – ANN ARBOR **6081**
A PRELIMINARY STUDY TO FORCED CONVECTION BOILING I N MICROGRAVITY
12/05/1991 – 01/31/1998 FY97: $0 Total: $221,135
Prin. Invest.: H MERTE
Tech. Officer: LERC/J A PLATT, LERC/R W VERNON
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1317 UNIVERSITY OF MICHIGAN – ANN ARBOR **6082**
COMPUTATIONAL STUDIES OF DROP COLLISION & COALESCE NCE
01/24/1992 – 06/12/1996 FY97: $0 Total: $253,090
Prin. Invest.: G TRYGGVASON
Tech. Officer: LERC/D A JACQMIN
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1460 UNIVERSITY OF MICHIGAN – ANN ARBOR **6083**
AN EXPERIMENTAL & THEORETICAL STUDY OF RADIATIVE E XTINCTION OF DIFFUSION FLAMES
02/18/1993 – 11/21/1995 FY97: –$153 Total: $119,847
Prin. Invest.: A ATREYA
Tech. Officer: LERC/K R SACKSTEDER
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1572 UNIVERSITY OF MICHIGAN – ANN ARBOR **6084**
USED FOR MODERN COMPUTATIONAL TOOLS TO MODE THE TH ERMAL CHARATERISTICS OF A 30–CM
02/16/1994 – 12/28/1997 FY97: $30,993 Total: $105,528
Prin. Invest.: A D GALLIMORE
Tech. Officer: LERC/J S SOVEY, LERC/T W HAAG
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1639 UNIVERSITY OF MICHIGAN – ANN ARBOR **6085**
FLAME–VORTEX INTERACTIONS IMAGED IN MICROGRAVITY
06/30/1994 – 06/29/1998 FY97: $145,000 Total: $554,700
Prin. Invest.: J F DRISCOLL
Tech. Officer: LERC/J E BROOKER
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1684 UNIVERSITY OF MICHIGAN – ANN ARBOR **6086**
STUDY OF POOL BOILING IN MICROGRAVITY – REWETTING FOLLOWING DRYOUT
11/17/1994 – 12/31/1997 FY97: $0 Total: $301,075
Prin. Invest.: H MERTE, NONE
Tech. Officer: LERC/F P CHIARAMONTE
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1807 UNIVERSITY OF MICHIGAN – ANN ARBOR **6087**
CHARACTERISTICS OF HERMETIC PACKAGES FOR HIGH FREQUENCY APPLICATIONS
02/01/1996 – 10/31/1996 FY97: –$160 Total: $14,840
Prin. Invest.: L B KATEHI
Tech. Officer: LERC/K A SHALKAUSER, LERC/C A RAQUET
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1808 UNIVERSITY OF MICHIGAN – ANN ARBOR **6088**
STUDY OF BROAD–BAND RADIO SIGNAL PROPAGATION THROU GH CLOSED–DRIFT HALL THRUSTER PLUME PLASMA
02/08/1996 – 06/07/1997 FY97: $0 Total: $58,241
Prin. Invest.: A D GALLIMORE
Tech. Officer: LERC/J M SANKOVIC
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 3 1861 UNIVERSITY OF MICHIGAN – ANN ARBOR **6089**
ON THE BOUNDARY CONDITIONS AT AN OSCILLATING CONTA CT LINE: A PHYSICAL/NUMERICAL EXPERIMENTAL PROGR
05/21/1996 – 05/20/2000 FY97: $66,000 Total: $164,000
Prin. Invest.: M PERLIN
Tech. Officer: LERC/M WEISLOGEL
CASE Category: 13 – PHYSICS

NAG 3 1878 UNIVERSITY OF MICHIGAN – ANN ARBOR **6090**
SOOT FORMATION IN FREELY–PROPAGATING LAMINAR PREM IXED FLAMES
05/20/1996 – 06/30/2000 FY97: $57,000 Total: $120,744
Prin. Invest.: G M FAETH
Tech. Officer: LERC/H D ROSS
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1880 UNIVERSITY OF MICHIGAN – ANN ARBOR **6091**
EXPERIMENTAL INVESTIGATION OF THE EFFECTS ON MISTU NING ON THE FORCED RESPONSE OF BLADE ASSEMBLE
05/22/1996 – 01/06/1998 FY97: $43,044 Total: $84,665
Prin. Invest.: C PIERRE
Tech. Officer: LERC/O MEHMED, LERC/G L STEFKO
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1900 UNIVERSITY OF MICHIGAN – ANN ARBOR **6092**
A STUDY OF NUCLEATE BOILING WITH FORCED CONVECTION IN MICROGRAVITY
07/22/1996 – 07/21/1998 FY97: $99,957 Total: $199,920
Prin. Invest.: P MERTE
Tech. Officer: LERC/F CHIARAMONTE
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1903 UNIVERSITY OF MICHIGAN – ANN ARBOR **6093**
SIGE/SI MONOLITHICALLY INTEGRATED AMPLIFIER CIRCUI TS
07/08/1996 – 11/02/1997 FY97: $0 Total: $130,000
Prin. Invest.: L KATEHI, P BHATTACHARYA
Tech. Officer: LERC/G E PONCHAK, LERC/S A ALTEROVITZ
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1952 UNIVERSITY OF MICHIGAN – ANN ARBOR **6094**
NUMERICAL MODELING OF LIQUID–VAPOR PHASE CHANGE
09/06/1996 – 08/14/1998 FY97: $50,000 Total: $101,591
Prin. Invest.: V S ARPACI
Tech. Officer: LERC/A T CHAI
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1972 UNIVERSITY OF MICHIGAN – ANN ARBOR **6095**
RELIABILITY STUDY OF HERMETIC PACKAGES FOR HIGH FR EQUENCY APPLICATIONS
11/18/1996 – 05/17/1998 FY97: $35,000 Total: $35,000
Prin. Invest.: L B KATEHI
Tech. Officer: LERC/G E PONCHAK
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 2048 UNIVERSITY OF MICHIGAN – ANN ARBOR **6096**
LAMINAR SOOT PROCESSES EXPERIMENT (LSP)
05/06/1997 – 04/30/2000 FY97: $139,000 Total: $139,000
Prin. Invest.: G M FAETH
Tech. Officer: LERC/D URBAN
CASE Category: 46 – MECHANICAL ENGR

NAG 5 653 UNIVERSITY OF MICHIGAN – ANN ARBOR **6097**
SOUNDING ROCKET SPECTROMETER TO MEASURE DAPPLER
01/01/1989 – 02/28/1998 FY97: $0 Total: $958,264
Prin. Invest.: J T CLARKE
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 1691 UNIVERSITY OF MICHIGAN – ANN ARBOR **6098**
DEVELOP A SOLAR FLUX MONITOR FOR EARTH AND PLANETA RY MISSIONS
07/15/1991 – 09/30/1995 FY97: $0 Total: $113,555
Prin. Invest.: G R CARIGNAN
Tech. Officer: GSFC/W R HOEGY, GSFC/J M GREBOWSKY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 1781 UNIVERSITY OF MICHIGAN – ANN ARBOR **6099**
A CONTINUING EVALUATION OF EOSDIS VO
09/12/1991 – 03/14/1997 FY97: $0 Total: $349,480
Prin. Invest.: A W ENGLAND
Tech. Officer: GSFC/H K RAMAPRIYAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 1955 UNIVERSITY OF MICHIGAN – ANN ARBOR **6100**
THE GEOMETRY AND FILLING FACTOR OF THE HOT INTERST ELLER MEDIUM
03/26/1992 – 09/30/1997 FY97: $0 Total: $166,379
Prin. Invest.: J N BREGMAN
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2397 UNIVERSITY OF MICHIGAN – ANN ARBOR **6101**
ANALYSIS OF IUE OBSERVATIONS OF HYDROGEN IN COMETS
10/15/1993 – 10/31/1997 FY97: $0 Total: $98,856
Prin. Invest.: M R COMBI
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2459 UNIVERSITY OF MICHIGAN – ANN ARBOR **6102**
JOVIAN EQUATORIAL H LYMAN–ALPHA AND THE IONOSPHERE
01/11/1994 – 01/14/1996 FY97: $0 Total: $1,500
Prin. Invest.: G E BALLESTER
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2506 UNIVERSITY OF MICHIGAN – ANN ARBOR **6103**
CORRELATIVE ANALYSIS OF ENERGETIC GAMMA–RAY EMISSI ON FROM THE CRAB NEBULA NAD GEMINGA
02/16/1994 – 03/31/1997 FY97: $0 Total: $96,435
Prin. Invest.: C W AKERLOF
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2522 UNIVERSITY OF MICHIGAN – ANN ARBOR **6104**
THE X–RAY SIGNATURE OF MERGERS IN ELLIPTICALS
02/10/1994 – 06/30/1997 FY97: $0 Total: $28,395
Prin. Invest.: D O RICHSTONE
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2649 UNIVERSITY OF MICHIGAN – ANN ARBOR **6105**
THE ENCOUNTER OF P/SHOEMAKER – LEVY 9 WITH THE JOV IAN PLASMA TORUS AND EXTENDED SODIUM CLOUD
07/05/1994 – 07/14/1996 FY97: $0 Total: $13,000
Prin. Invest.: R J NICIEJENSKI
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 2732 UNIVERSITY OF MICHIGAN – ANN ARBOR **6106**
THE CLUSTER MASS FUNCTION AND BARYON FRACTION FROM A COMPLETE X–RAY SAMPLE
09/21/1994 – 06/30/1997 FY97: $19,494 Total: $89,494
Prin. Invest.: J BREGMAN
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2752 UNIVERSITY OF MICHIGAN – ANN ARBOR **6107**
CASE STUDIES OF THE OZONE DEFICIT: COMPARING THE NEW NCAR TIME–GCM WITH SIMULTANEOUS DATA FROM UARS
10/14/1994 – 10/14/1996 FY97: $0 Total: $125,494
Prin. Invest.: W E SHARP
Tech. Officer: GSFC/C H JACKMAN
CASE Category: 31 – ATMOSPHERICSCIENCE

NAG 5 2758 UNIVERSITY OF MICHIGAN – ANN ARBOR **6108**
NUCLEI F NORMAL GALAXIES
10/19/1994 – 06/30/1997 FY97: $0 Total: $179,992
Prin. Invest.: D O RICHSTONE
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2790 UNIVERSITY OF MICHIGAN – ANN ARBOR **6109**
GAS DYNAMIC SIMULATIONS OF GROUPS AND CLUSTERS AND GALAXIES
11/14/1994 – 08/31/1997 FY97: $90,000 Total: $285,600
Prin. Invest.: A E EVRARD
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2869 UNIVERSITY OF MICHIGAN – ANN ARBOR **6110**
STAR FORMATION STUDIES: DYNAMICS AND INFRARED SIGN ATURES
01/12/1995 – 01/14/1999 FY97: $90,000 Total: $220,000
Prin. Invest.: F C ADAMS
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2876 UNIVERSITY OF MICHIGAN – ANN ARBOR **6111**
WINDOWS TO THE UNIVERSE–AN EARTH AND SPACE SCIENCE INTER-NET–BASED ACTIVE LEARNING SYSTEM
01/19/1995 – 01/31/1998 FY97: $650,000 Total: $1,425,000
Prin. Invest.: R JOHNSON
Tech. Officer: GSFC/F HASLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2918 UNIVERSITY OF MICHIGAN – ANN ARBOR **6112**
ANALOG ELECTRONICS AND ELECTRICAL GROUND SUPPORT EQUIP-MENT FOR THE PLANET–B NEUTRAL MASS SPECTRO.
03/21/1995 – 10/31/1997 FY97: $0 Total: $388,288
Prin. Invest.: G R CARIGNAN
Tech. Officer: GSFC/S H WAY
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 3044 UNIVERSITY OF MICHIGAN – ANN ARBOR **6113**
ARCHIVAL STUDY OF ENERGETIC PROCESSES IN THE UPPER ATMOSPHERE OF THE OUTER PLANE
08/03/1995 – 08/14/1997 FY97: $56,100 Total: $160,300
Prin. Invest.: G E BALLESTER
Tech. Officer: GSFC/W WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3145 UNIVERSITY OF MICHIGAN – ANN ARBOR **6114**
A MULTIWAVELENGTH SEARCH FOR CORRELATED TIME VARIATIONS IN THE BRIGHTEST EGRET BLAZARS
11/14/1995 – 06/30/1997 FY97: $0 Total: $14,458
Prin. Invest.: M ALLER, R C HARTMAN
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3168 UNIVERSITY OF MICHIGAN – ANN ARBOR **6115**
BUDGET OF NITROGEN COMPOUNDS IN THE GLOBAL ATMOSPH ERE: OBSERVATIONS–BASED CLIMATOLOGIES
02/14/1996 – 02/28/1997 FY97: $0 Total: $45,900
Prin. Invest.: M A CARROLL, G BRASSEUR
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3180 UNIVERSITY OF MICHIGAN – ANN ARBOR **6116**
HIGH RESSOLUTION DOPPLER IMAGER
03/29/1996 – 03/31/1998 FY97: $516,063 Total: $1,690,080
Prin. Invest.: P B HAYS
Tech. Officer: GSFC/C H JACKMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3247 UNIVERSITY OF MICHIGAN – ANN ARBOR **6117**
THE HOT INTERSTELLAR MEDIUM IN SPIRAL, ELLIPTICALS , AND CLUS-TERS OF GALAXIES
05/30/1996 – 04/30/1998 FY97: $126,000 Total: $246,000
Prin. Invest.: J N BREGMAN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3284 UNIVERSITY OF MICHIGAN – ANN ARBOR **6118**
CORRELATED OBSERVATIUONS OF MARKARIAN 421 AT X–RAY AND TEV ENERGIES
07/03/1996 – 01/14/1998 FY97: $0 Total: $10,800
Prin. Invest.: C AKERLOF
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3285 UNIVERSITY OF MICHIGAN – ANN ARBOR **6119**
MULTIWAVEBAND MONITORING OF THE BRIGHT, VIOLENTLY VARIABLE QUASAR 3C 454.3
07/03/1996 – 01/14/1998 FY97: $0 Total: $9,106
Prin. Invest.: M ALLER
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3352 UNIVERSITY OF MICHIGAN – ANN ARBOR **6120**
DUST IN THE X–RAY ATMOSPHERES OF ELLIPTICAL GALAXI ES
08/09/1996 – 08/14/1998 FY97: $0 Total: $20,150
Prin. Invest.: J N BREGMAN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3401 UNIVERSITY OF MICHIGAN – ANN ARBOR **6121**
GALAXY CLUSTER EVOLUTION AND DYNAMICS AT THE PRESE
10/01/1996 – 09/30/1997 FY97: $61,500 Total: $61,500
Prin. Invest.: A E EVRARD
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3679 UNIVERSITY OF MICHIGAN – ANN ARBOR **6122**
A TARGET OF OPPORTUNITY PROPOSAL FOR FLARING BLAZA
01/02/1997 – 01/14/1998 FY97: $14,001 Total: $14,001
Prin. Invest.: M F ALLER
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3771 UNIVERSITY OF MICHIGAN – ANN ARBOR **6123**
GLOBAL STUDY OF THE SULFUR CYCLE INCLUDING THE INF FUEL SUL-FUR ON CLIMATE AND CLIMATE CHANGE
03/14/1997 – 01/31/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: J E PENNER
Tech. Officer: GSFC/J A KAYE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3849 UNIVERSITY OF MICHIGAN – ANN ARBOR **6124**
DEVELOPMENT OF SAR ALGORITHM FOR MAPPING SOIL MOISTURE BIOMASS
02/03/1997 – 09/30/1997 FY97: $100,000 Total: $100,000
Prin. Invest.: F T ULABY
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3874 UNIVERSITY OF MICHIGAN – ANN ARBOR **6125**
INTESTINAL ADAPTATION IN MICROGRAVITY
02/10/1997 – 11/30/1997 FY97: $99,386 Total: $99,386
Prin. Invest.: G L AMIDON
Tech. Officer: GSFC/M E FREY
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 4007 UNIVERSITY OF MICHIGAN – ANN ARBOR **6126**
DYNAMICAL VARIATIONS IN THE MESOSPHERE AND LOWER T AND INTERANNUAL VARIABLITY
03/06/1997 – 04/30/1998 FY97: $68,645 Total: $68,645
Prin. Invest.: D D BURRAGE
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 4101 UNIVERSITY OF MICHIGAN – ANN ARBOR **6127**
BACKGROUND NOX SOURCES IN THE UPPER TROPOSPHERE: LIGHTNING, CONVECTION, AND STRATOSPHERE/TROPOSPHER
03/12/1997 – 03/14/1998 FY97: $25,400 Total: $25,400
Prin. Invest.: J E PENNER
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4169 UNIVERSITY OF MICHIGAN – ANN ARBOR **6128**
COMPOSITION AND EVOLUTION OF THE ATMOSPHERE OF VEN
03/15/1997 – 12/31/1997 FY97: $42,927 Total: $42,927
Prin. Invest.: D M DONAHUE
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4243 UNIVERSITY OF MICHIGAN – ANN ARBOR **6129**
NASA CENTER FOR SPACE TERAHARTZ TECHNOLOGY
04/18/1997 – 10/31/1997 FY97: $38,400 Total: $38,400
Prin. Invest.: D T ULABY
Tech. Officer: GSFC/R AVANT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 4244 UNIVERSITY OF MICHIGAN – ANN ARBOR **6130**
MONITORING OF TW0 BLAZARS WITH FREQUENCY–SIMULTANE MULTIWAVEBAND MONITORING OF THE PROMINENT BLAZER
04/03/1997 – 04/14/1998 FY97: $14,154 Total: $14,154
Prin. Invest.: M ALLER
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4264 UNIVERSITY OF MICHIGAN – ANN ARBOR **6131**
THEORETICAL STUDIES AND SATELLITE DATA ANALYSIS OF LOWER THERMOSPHERE
04/07/1997 – 04/14/1998 FY97: $81,625 Total: $81,625
Prin. Invest.: D L KILLEEN
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 4271 UNIVERSITY OF MICHIGAN – ANN ARBOR **6132**
STUDIES OF THE THERMOSPHERIC RESPONSE TO GEOMAGNET MINIMUM CONDITIONS
04/03/1997 – 04/30/1998 FY97: $69,512 Total: $69,512
Prin. Invest.: D BURNS
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 4315 UNIVERSITY OF MICHIGAN – ANN ARBOR **6133**
MULTISCALE MODELING OF COMETARY ATMOSPHERES
04/12/1997 – 05/31/1998 FY97: $67,382 Total: $67,382
Prin. Invest.: P I GOMBOSI
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4379 UNIVERSITY OF MICHIGAN – ANN ARBOR **6134**
MARS 96 PARTICIPATING SCIENTIST: STABILITY OF THE
04/24/1997 – 06/30/1998 FY97: $20,000 Total: $20,000
Prin. Invest.: P K ATREYA
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4381 UNIVERSITY OF MICHIGAN – ANN ARBOR **6135**
STUDIES OF TENOUS PLANETARY ATMOSPHERES
04/29/1997 – 07/31/1998 FY97: $80,000 Total: $80,000
Prin. Invest.: D R COMBI
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4431 UNIVERSITY OF MICHIGAN – ANN ARBOR **6136**
REGIONAL SCALE LAND–COVER CLASSIFICATION USING EXI IMAGING RADAR
04/17/1997 – 09/30/1997 FY97: $71,567 Total: $71,567
Prin. Invest.: D ULABY
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4483 UNIVERSITY OF MICHIGAN – ANN ARBOR **6137**
CORRELATED OBSERVATIONS OF MARKARIAN 421 AT X-RAY FREQUENCIES
05/07/1997 – 04/30/1998 FY97: $25,105 Total: $25,105
Prin. Invest.: C W AKERLOF
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4556 UNIVERSITY OF MICHIGAN – ANN ARBOR **6138**
A PROPOSAL FOR THE CONTINUATED PARTICIPATION OF L. 96 ELISMA INVESTIGATION
05/29/1997 – 03/31/1998 FY97: $15,000 Total: $15,000
Prin. Invest.: D BRACE
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4589 UNIVERSITY OF MICHIGAN – ANN ARBOR **6139**
A PROGRAM FOR RESEARCH IN PLANETARY ATMOSPHERES: P COUPLED CLOUD PHYSICS
05/23/1997 – 06/30/1998 FY97: $80,000 Total: $80,000
Prin. Invest.: P K ATREYA
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4674 UNIVERSITY OF MICHIGAN – ANN ARBOR **6140**
CO–INVESTIGATOR PROGRAM: MARS 94 MARIPROBE
06/10/1997 – 01/31/1998 FY97: $30,000 Total: $30,000
Prin. Invest.: D F NAGY
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4714 UNIVERSITY OF MICHIGAN – ANN ARBOR **6141**
DISTRIBUTION OF GASES IN THE INNER COMAE OF COMETS
06/23/1997 – 10/31/1997 FY97: $90,887 Total: $90,887
Prin. Invest.: D R COMBI
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4770 UNIVERSITY OF MICHIGAN – ANN ARBOR **6142**
HOW LIFE AFFECTS THE GEOCHEMICAL CYCLE OF CARBON
06/09/1997 – 12/31/1997 FY97: $100,000 Total: $100,000
Prin. Invest.: D G WALKER
Tech. Officer: GSFC/M A MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 4771 UNIVERSITY OF MICHIGAN – ANN ARBOR **6143**
STUDIES OF INNER MAGNETOSPHERIC PROCESSES AND THEI UNDERLYING ATMOSPHERE AND IONOSPHERE
06/09/1997 – 04/30/1998 FY97: $75,000 Total: $75,000
Prin. Invest.: D U KOZYRA
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 4855 UNIVERSITY OF MICHIGAN – ANN ARBOR **6144**
APPLICATION OF MC–ICPMS TO THE MEASUREMENT OF ISOT MO, RU, SN, TE AND W
06/23/1997 – 03/31/1998 FY97: $44,957 Total: $44,957
Prin. Invest.: D N HALLIDAY
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4912 UNIVERSITY OF MICHIGAN – ANN ARBOR **6145**
MULTIDIMENSIONAL MHD MODEL STUDIES OF THE IONOSPHE
07/02/1997 – 03/31/1998 FY97: $90,000 Total: $90,000
Prin. Invest.: D F NAGY
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4916 UNIVERSITY OF MICHIGAN – ANN ARBOR **6146**
FULLY IMPLATABLE INTEGRATED SILICON BIOTELEMETRY M
07/07/1997 – 04/30/1998 FY97: $247,516 Total: $247,516
Prin. Invest.: K NAJAFI
Tech. Officer: GSFC/G FOGLEMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 4939 UNIVERSITY OF MICHIGAN – ANN ARBOR **6147**
DIGITAL TOPOGRAPHY FROM SAR INTERFEROMETRY: DETER CORRECTION OF VEGETATION HEIGHT
06/23/1997 – 03/14/1998 FY97: $80,777 Total: $80,777
Prin. Invest.: K SARABANDI
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 5030 UNIVERSITY OF MICHIGAN – ANN ARBOR **6148**
SOLAR AND MAGNETOSPHERIC INPUTS TO THE MLTI REGION
03/03/1995 – 02/28/1998 FY97: $103,000 Total: $195,974
Prin. Invest.: J KOZYRA
Tech. Officer: GSFC/R PLESS
CASE Category: 13 – PHYSICS

NAG 5 5049 UNIVERSITY OF MICHIGAN – ANN ARBOR **6149**
TIDI – A TIMED DOPPLER INTERFEROMETER NEW AWARD
12/04/1995 – 01/31/1998 FY97: $600,000 Total: $2,249,997
Prin. Invest.: T L KILLEN
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 – PHYSICS

NAG 5 5059 UNIVERSITY OF MICHIGAN – ANN ARBOR **6150**
HIGH ENERGY ANTIMATTER TELESCOPE (HEAT) FIRST YEAR OF FUNDING
05/01/1996 – 01/31/1998 FY97: $313,042 Total: $513,042
Prin. Invest.: G TARLE
Tech. Officer: GSFC/H C NEDDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5101 UNIVERSITY OF MICHIGAN – ANN ARBOR **6151**
A DEEP REALTIME SEARCH FOR THE OPTICAL COUNTER– PARTS OF BATSE & HETE EVENTS
02/11/1997 – 02/28/1998 FY97: $158,571 Total: $158,571
Prin. Invest.: C AKERLOF
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5121 UNIVERSITY OF MICHIGAN – ANN ARBOR **6152**
HALE–BOPP FUNDING FOR THE FIRST YEAR OF THE GRANT
02/06/1997 – 10/31/1997 FY97: $700,000 Total: $700,000
Prin. Invest.: J CLARK
Tech. Officer: GSFC/B J FLOWERS
CASE Category: 13 – PHYSICS

NAG 5 6083 UNIVERSITY OF MICHIGAN – ANN ARBOR **6153**
GLOBAL OBSERVATION OF PLANETARY–SCALE WAVES IN THE THERMOSPHERE FROM HRDI AND WINDII
08/26/1997 – 08/14/1998 FY97: $78,158 Total: $78,158
Prin. Invest.: D S LIEBERMAN
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 6122 UNIVERSITY OF MICHIGAN – ANN ARBOR **6154**
SOHO GUEST INVESTIGATOR STUDY OF HYDROGEN LYMAN–AL WITH SWAN
08/11/1997 – 08/14/1998 FY97: $46,459 Total: $46,459
Prin. Invest.: D R COMBI
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NAG 5 6187 UNIVERSITY OF MICHIGAN – ANN ARBOR **6155**
STUDIES FOR THE LOSS OF ATOMIC AND MOLECULAR SPECI
07/30/1997 – 06/30/1998 FY97: $29,432 Total: $29,432
Prin. Invest.: D R COMBI
Tech. Officer: GSFC/S HOWARD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 1250 UNIVERSITY OF MICHIGAN – ANN ARBOR **6156**
STUDY OF CONFINEMENT AND PROPULSION CHARIACTERIS– TICS OFGASDYNAMIC MIRROR FUSION ROCKET
12/06/1996 – 10/31/1997 FY97: $127,276 Total: $127,276
Prin. Invest.: T KAMMASH, W GETTY
Tech. Officer: MSFC/W J EMRICH, JR.
CASE Category: 13 – PHYSICS

NAG 8 1293 UNIVERSITY OF MICHIGAN – ANN ARBOR **6157**
A HIGH DENSITY MIRROR FUSION SYSTEM FOR SPACE REPULSION
05/07/1996 – 04/30/1997 FY97: $0 Total: $50,000
Prin. Invest.: T KAMMASH
Tech. Officer: MSFC/L W BRANTLEY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 8 1305 UNIVERSITY OF MICHIGAN – ANN ARBOR **6158**
R/S ELECTRODYNAMIC TETHER UPPER STAGE PLASMA DIAGNOSTICS AND TETHER CURRENT CONTROL STRATEGY
11/22/1996 – 05/21/1997 FY97: $15,000 Total: $15,000
Prin. Invest.: B F GILCHRIST
Tech. Officer: MSFC/L JOHNSON
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 9 652 UNIVERSITY OF MICHIGAN – ANN ARBOR **6159**
SHEAR SENSITIVES OF HUMAN BONE MARROW CULTURES
10/28/1992 – 10/01/1997 FY97: $0 Total: $420,000
Prin. Invest.: H Y WANG
Tech. Officer: JSC/S R GONDA
CASE Category: 12 – CHEMISTRY

NAG 9 709 UNIVERSITY OF MICHIGAN – ANN ARBOR **6160**
SPIFEX
08/30/1993 – 09/01/1996 FY97: $0 Total: $70,018
Prin. Invest.: A GALLIMORE
Tech. Officer: JSC/R MACHIN
CASE Category: 41 – AERONAUTICAL ENGNR

NAGW 176 UNIVERSITY OF MICHIGAN – ANN ARBOR **6161**
"INTERACTION OF BIOTA AND ATMOSPHERE: THE GEOLOGICAL RECORDS"
04/01/1981 – 08/31/1997 FY97: $0 Total: $1,634,469
Prin. Invest.: J C WALKER, NONE
Tech. Officer: HQ/J D RUMMEL, HQ/M AVERNER
CASE Category: 12 – CHEMISTRY

NAGW 1334 UNIVERSITY OF MICHIGAN – ANN ARBOR **6162**
CENTER FOR NEAR–MILLIMETER WAVE COMM. AND SENSING TECH.
07/13/1988 – 09/01/1998 FY97: $0 Total: $11,260,125
Prin. Invest.: F T ULABY
Tech. Officer: HQ/S C HARTMAN
CASE Category: 49 – ENGINEERING, OTHER

NAGW 1366 UNIVERSITY OF MICHIGAN – ANN ARBOR **6163**
MODELING OF COMETARY ATMOSPHERE
07/13/1988 – 09/30/1997 FY97: $0 Total: $598,832
Prin. Invest.: T I GOMBOSI
Tech. Officer: HQ/J T BERGSTRALH, HQ/W L QUIADE
CASE Category: 11 – ASTRONOMY

NAGW 1642 UNIVERSITY OF MICHIGAN – ANN ARBOR **6164**
SUPERCONDUCTING MAGNET INSTRUMENT FOR LIGHT ISOTOPES
01/26/1989 – 06/30/1997 FY97: $0 Total: $1,295,000
Prin. Invest.: G TARLE
Tech. Officer: HQ/M M MELLOTT, HQ/W V JONES
CASE Category: 13 – PHYSICS

NAGW 1766 UNIVERSITY OF MICHIGAN – ANN ARBOR **6165**
ANALYSIS OF MULTI=D–WAVELENGTH OBSERVATIONS OF THE AURORA
05/31/1989 – 10/31/1995 FY97: $0 Total: $410,645
Prin. Invest.: J T CLARKE
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAGW 1771 UNIVERSITY OF MICHIGAN – ANN ARBOR **6166**
A PROGRAM FOR RESEARCH IN PLANETARY ATMOSPHERES
05/26/1989 – 09/30/1997 FY97: $0 Total: $675,127
Prin. Invest.: S ATREYA
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAGW 1907 UNIVERSITY OF MICHIGAN – ANN ARBOR **6167**
THE DISTRIBUTION OF GAS IN THE INNER CORNAE OF COMETS
12/27/1989 – 10/31/1997 FY97: $0 Total: $524,109
Prin. Invest.: M R COMBI
Tech. Officer: HQ/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAGW 2124 UNIVERSITY OF MICHIGAN – ANN ARBOR **6168**
A PRECISE MEASUREMENT OF THE TEMPERATURE OF THE CO SMIC BACKGROUND RADIATION
05/23/1990 – 12/31/1997 FY97: –$10,013 Total: $89,987
Prin. Invest.: D J HEYGI
Tech. Officer: HQ/G LEVY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 2135 UNIVERSITY OF MICHIGAN – ANN ARBOR **6169**
THE HOT INTERSTELLAR MEDIUM IN SPIRAL AND ELLIPTIC AL GALAXIES
10/23/1990 – 06/30/1997 FY97: $0 Total: $860,505
Prin. Invest.: J N BREGMAN, NONE
Tech. Officer: HQ/G S KUTTER, HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 2151 UNIVERSITY OF MICHIGAN – ANN ARBOR **6170**
INVESTIGATION OF POLARIMETRIC RADAR RESPONSE TO SO IL MOIS-TURE AND SURFACE ROUGHNESS
07/02/1990 – 10/31/1996 FY97: $0 Total: $648,000
Prin. Invest.: F ULABY
Tech. Officer: HQ/G ASRAR, HQ/T J PIEPER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 2501 UNIVERSITY OF MICHIGAN – ANN ARBOR **6171**
NAGW–2501/UNIV MICHIGAN/PARTICIPATION AS A CO–INVE STIGATOR ON THE MARS 94 ELISMA INVESTIGATION
06/13/1991 – 06/30/1997 FY97: $0 Total: $204,669
Prin. Invest.: L H BRACE
Tech. Officer: HQ/W L QUAIDE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 2533 UNIVERSITY OF MICHIGAN – ANN ARBOR **6172**
MARS 94 INVESTIGATIONS
07/30/1991 – 01/31/1997 FY97: $0 Total: $255,428
Prin. Invest.: A NAGY
Tech. Officer: HQ/W LQUAIDE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 2561 UNIVERSITY OF MICHIGAN – ANN ARBOR **6173**
MARS '94 PARTICIPATING SCIENTIST: INVESTIGATION O F STABILITY OF THE MARTIAN ATMOSPHERE
07/31/1991 – 06/30/1997 FY97: $0 Total: $182,773
Prin. Invest.: S K ATREYA
Tech. Officer: HQ/W L QUAIDE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3417 UNIVERSITY OF MICHIGAN – ANN ARBOR **6174**
STUDIES OF THE TENOUS PLANETARY ATMOSPHERES
03/09/1993 – 07/31/1997 FY97: $80,000 Total: $329,931
Prin. Invest.: M COMBI
Tech. Officer: HQ/H C BRINTON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3430 UNIVERSITY OF MICHIGAN – ANN ARBOR **6175**
LINKING GCM HYDROLOGIC PARAMETERS TO THE RADIOBRIG HTNESS OF NORTHERN PRAIRIE AND ARCTIC TUNDRA
03/03/1993 – 09/30/1997 FY97: $0 Total: $375,000
Prin. Invest.: A W ENGLAND
Tech. Officer: HQ/R E MURPHY
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3457 UNIVERSITY OF MICHIGAN – ANN ARBOR **6176**
DATA ANALYSIS AND THEORETICAL STUDIES OF THE LOWER THERMO-SPHERE
03/19/1993 – 04/30/1997 FY97: $0 Total: $309,810
Prin. Invest.: T L KILLEEN
Tech. Officer: HQ/M M MELLOTT, HQ/G L WITHBROE
CASE Category: 13 – PHYSICS

NAGW 3579 UNIVERSITY OF MICHIGAN – ANN ARBOR **6177**
INVESTIGATION OF THE IONOSPHERE AND IONOTAIL OF VE NUS
05/25/1993 – 03/14/1996 FY97: $0 Total: $66,000
Prin. Invest.: L BRACE
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3585 UNIVERSITY OF MICHIGAN – ANN ARBOR **6178**
STUDIES FOR THE LOSS OF ATOMIC AND MOLECULAR SPECI ES FROM IO
05/12/1993 – 06/30/1997 FY97: $0 Total: $130,218
Prin. Invest.: M COMB
Tech. Officer: HQ/H C BRINTON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3962 UNIVERSITY OF MICHIGAN – ANN ARBOR **6179**
MULTIDIMENSIONAL MHD MODEL STUDIES OF THE IONOSPHE RES OF VENUS AND MARS
05/13/1994 – 03/31/1998 FY97: $0 Total: $242,221
Prin. Invest.: A NAGY
Tech. Officer: HQ/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4175 UNIVERSITY OF MICHIGAN – ANN ARBOR **6180**
DEVELOPMENT OF THE SPACE TETHERED INSTRUMENT CONCEPT FOR ITM SCIENCE
10/28/1994 – 06/30/1998 FY97: $50,000 Total: $160,000
Prin. Invest.: B GILCHRIST
Tech. Officer: HQ/M M MELLOTT, HQ/J D BROHLIN
CASE Category: 13 – PHYSICS

NAGW 4179 UNIVERSITY OF MICHIGAN – ANN ARBOR **6181**
REGIONAL SCALE LAND–COVER CLASSIFICATION USING EXI STING ORBITAL IMAGING RADAR
10/26/1994 – 03/31/1997 FY97: $0 Total: $326,767
Prin. Invest.: F T ULABY, M C DOBSON, L E PIERCE
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4180 UNIVERSITY OF MICHIGAN – ANN ARBOR **6182**
DEVELOPMENT OF SAR ALGORITHMS FOR MAPPING SOIL MOI STURE AND SHORT VEGETATION BIOMASS
10/26/1994 – 09/30/1997 FY97: $0 Total: $200,000
Prin. Invest.: F T ULABY
Tech. Officer: HQ/M Y WEI, HQ/J S THEON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4240 UNIVERSITY OF MICHIGAN – ANN ARBOR **6183**
ADVANCED DESIGN PROGRAM
01/18/1995 – 12/31/1995 FY97: $0 Total: $17,350
Prin. Invest.: J EISLEY
Tech. Officer: HQ/AS MCGEE
CASE Category: 49 – ENGINEERING, OTHER

NAGW 4367 UNIVERSITY OF MICHIGAN – ANN ARBOR **6184**
ARCHIVING AND RESTORATION OF VISIBLE AIRGLOW DATA FROM THE AE–C, AE–D, AND AE–E, AND DE–2 SPACECRAFT
03/18/1995 – 12/31/1996 FY97: $0 Total: $52,523
Prin. Invest.: M D BURRAGE
Tech. Officer: HQ/J B WILLETT
CASE Category: 22 – COMPUTER SCIENCE

NAGW 4388 UNIVERSITY OF MICHIGAN – ANN ARBOR **6185**
COMPOSITION AND EVALUATION OF THE ATMOSPHERE OF VENUS
03/30/1995 – 02/28/1997 FY97: $42,000 Total: $81,560
Prin. Invest.: T DONAHUE
Tech. Officer: HQ/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAGW 4446 UNIVERSITY OF MICHIGAN – ANN ARBOR **6186**
ANALYSIS OF THE IUE SPECTRA OBTAINED DURING THE SH OEMAKER LEVY ENCOUNTER
05/10/1995 – 04/30/1997 FY97: $57,000 Total: $114,000
Prin. Invest.: W HARRIS
Tech. Officer: HQ/J BERGSTRALH
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4448 UNIVERSITY OF MICHIGAN – ANN ARBOR **6187**
THE HOT INTERSTELLAR MEDIUM IN SPIRALS, ELLIPTICAL AND CLUS-TERS OF GALAXIES
05/02/1995 – 05/31/1997 FY97: $0 Total: $115,000
Prin. Invest.: J N BREGMAN
Tech. Officer: HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 4494 UNIVERSITY OF MICHIGAN – ANN ARBOR **6188**
FULLY IMPLANTABLE INTEGRATED SILCON BIOTELEMETRY MICROSYS-TEMS
05/16/1995 – 02/28/1998 FY97: $0 Total: $427,570
Prin. Invest.: K NAJAFI
Tech. Officer: HQ/G C FOGLEMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4555 UNIVERSITY OF MICHIGAN – ANN ARBOR **6189**
DIGITAL TOPOGRAPHY FROM SAR INTERFEROMETRY: DETER MINATION OF AND CORRECTION FOR VEGETATION HEIGHT
06/06/1995 – 09/30/1997 FY97: $0 Total: $197,823
Prin. Invest.: K SARABANDI, M C DOBSON, J VANZYL
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4611 UNIVERSITY OF MICHIGAN – ANN ARBOR **6190**
STUDIES OF INNER MAGNETOSPHERIC PROCESS AND COUPLING TO THE UNDERLYING ATMOSPHER
08/02/1995 – 10/31/1997 FY97: $0 Total: $150,000
Prin. Invest.: J U KOZYRA
Tech. Officer: HQ/J BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4704 UNIVERSITY OF MICHIGAN – ANN ARBOR **6191**
AN INNOVATIVE MINIATURE HIGH RESOLUTION FABRY–PERO T SPECTROMETER FOR PLANETARYATMOSPHERIC RESEARCH
08/24/1995 – 06/30/1998 FY97: $0 Total: $180,249
Prin. Invest.: W COOK
Tech. Officer: HQ/T KOSTIUK
CASE Category: 11 – ASTRONOMY

NAGW 4758 UNIVERSITY OF MICHIGAN – ANN ARBOR **6192**
WORLD WIDE WEB INTERFACE FOR THE UNIVERSITY OF MICHIGAN SPACE PHYSICS RESEARCH LABORATORY
10/05/1995 – 08/31/1996 FY97: –$4,225 Total: $10,233
Prin. Invest.: T I KILLEEN
Tech. Officer: HQ/J B WILLETT
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4797 UNIVERSITY OF MICHIGAN – ANN ARBOR **6193**
THE SHOEMAKER–LEVY 9/JUPITER IMPACT: AURORAL AND H IGH ENERGY PROCESSES
09/22/1995 – 09/30/1997 FY97: $0 Total: $91,000
Prin. Invest.: M COMBI
Tech. Officer: HQ/E BARKER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4981 UNIVERSITY OF MICHIGAN – ANN ARBOR **6194**
INTESTIONAL ADAPTATION IN MICROGRAVITY
02/28/1996 – 11/30/1996 FY97: $0 Total: $99,746
Prin. Invest.: G L AMIDON, PH.D.
Tech. Officer: HQ/F SULZMAN
CASE Category: 56 – MEDICL

NAGW 5017 UNIVERSITY OF MICHIGAN – ANN ARBOR **6195**
WHAT IS SPACE WEATHER? A WORKSHOP FOR SCIENCE WRIT ERS
03/28/1996 – 03/31/1996 FY97: $0 Total: $19,953
Prin. Invest.: C CLAUER
Tech. Officer: HQ/J D BOHLIN, GSFC/G L WITHBROE
CASE Category: 13 – PHYSICS

NAGW 5053 UNIVERSITY OF MICHIGAN – ANN ARBOR **6196**
GLOBAL OBSERATIONS OF PLANETARY–SCALE WAVES
05/17/1996 – 12/31/1997 FY97: $0 Total: $71,792
Prin. Invest.: R S LIEBERMAN
Tech. Officer: HQ/M M MELLOTT, HQ/G L WITHBROE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 5112 UNIVERSITY OF MICHIGAN – ANN ARBOR **6197**
APPLICATION OF MC–ICPMS TO THE MEASUREMENT OF ISOT OPIC ANOM-ALIES IN ZR, MO, RU, SN, TE AND W
06/25/1996 – 03/31/1997 FY97: $0 Total: $45,000
Prin. Invest.: A N HALLIDAY
Tech. Officer: HQ/J NUTH, HQ/H C BRINTON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 5203 UNIVERSITY OF MICHIGAN – ANN ARBOR **6198**
ESTIMATING WATER STORED IN SOIL AND VEGETATION USI NG LSP MODEL SOIL WETNESS & SATELLITE RADIOBRIGHT
09/26/1996 – 12/31/1997 FY97: $192,243 Total: $192,243
Prin. Invest.: A ENGLAND
Tech. Officer: HQ/M WEI, HQ/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 5235 UNIVERSITY OF MICHIGAN – ANN ARBOR **6199**
RESEARCH (CONTINUING)
10/09/1996 – 09/30/1997 FY97: $60,000 Total: $60,000
Prin. Invest.: J T CLARKE
Tech. Officer: HQ/J BERGSTRALH, HQ/H C BRINTON
CASE Category: 13 – PHYSICS

NAS 1 18290 UNIVERSITY OF MICHIGAN – ANN ARBOR **6200**
HALOE SCIENTIFIC INVESTIGATION
05/08/1986 – 09/30/1997 FY97: $0 Total: $814,905
Prin. Invest.: S R DRAYSON
Tech. Officer: LARC/E M SULLIVAN, LARC/J M RUSSELL III
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 30119 UNIVERSITY OF MICHIGAN – ANN ARBOR **6201**
SCIENTIFIC INTERPRETATION OF GPMS DATA
06/15/1987 – 04/30/1999 FY97: $0 Total: $310,712
Prin. Invest.: S K ATREYA
Tech. Officer: GSFC/J RICHARDS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 30120 UNIVERSITY OF MICHIGAN – ANN ARBOR **6202**
SCIENTIFIC INTERPRETATION OF GPMS DATA
06/15/1987 – 04/30/1998 FY97: $64,175 Total: $291,891
Prin. Invest.: T M DONAHUE
Tech. Officer: GSFC/J R RICHARDS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 30943 UNIVERSITY OF MICHIGAN – ANN ARBOR **6203**
ELECTRONICS PACKAGE FOR THE COMET RENDEZVOUS ASTEROID FLYBY NEUTRAL GAS ION MASS SPECTROMETER
02/25/1991 – 10/01/1997 FY97: $282,962 Total: $2,974,345
Prin. Invest.: G CARIGNAN
Tech. Officer: GSFC/R L FROST
CASE Category: 31 – ATMOSPHERICSCIENCE

NAS 5 30955 UNIVERSITY OF MICHIGAN – ANN ARBOR **6204**
ELECTRONICS PACKAGE FOR THE HUYGENS PROBE; GAS CHROMATOGRAPH MASS SPECTROMETER
04/08/1991 – 10/01/1997 FY97: $214,722 Total: $3,561,378
Prin. Invest.: G CARIGNAN
Tech. Officer: GSFC/R L FROST
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 32361 UNIVERSITY OF MICHIGAN – ANN ARBOR **6205**
CASSINI/HUYGENS GAS CHROMATOGRAPH MASS SPECTROMETER (GC–MS) INVESTIGATION
05/05/1994 – 11/15/1997 FY97: $55,413 Total: $150,413
Prin. Invest.: S ATREYA
Tech. Officer: GSFC/J RICHARDS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 5 32989 UNIVERSITY OF MICHIGAN – ANN ARBOR **6206**
PROVIDE ENGINEERING SUPPORT IN THE DEFINITION DESIGN AND TEST OF THE PLANET–B NMS
01/25/1996 – 09/30/1998 FY97: $772,000 Total: $1,352,255
Prin. Invest.: G CARIGNAN
Tech. Officer: GSFC/S WAY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 8 37108 UNIVERSITY OF MICHIGAN – ANN ARBOR **6207**
STUDY ENTITLED "RESEARCH ON ORBITAL PLASMA–ELECTRODYNAMICS (ROPE)."
04/14/1987 – 12/31/1997 FY97: $1,652 Total: $100,801
Prin. Invest.: B GILCHRIST
Tech. Officer: MSFC/M F MALONE, MSFC/R HOLDER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 8 39381 UNIVERSITY OF MICHIGAN – ANN ARBOR **6208**
SHUTTLE ELECTORDYNAMIC TETHER SYSTEM
06/26/1992 – 05/31/1998 FY97: $801,959 Total: $5,803,590
Prin. Invest.: B GILCHRIST, B E GILEHRIST
Tech. Officer: MSFC/B LAKE
CASE Category: 13 – PHYSICS

NAS 8 40578 UNIVERSITY OF MICHIGAN – ANN ARBOR **6209**
CONTINUING DEVELOPMENT OF HYBRID MODEL OF THE NEUTRAL THERMOSPHERE
04/19/1995 – 11/30/1997 FY97: $21,412 Total: $158,684
Prin. Invest.: A BURNS
Tech. Officer: GSFC/J ANDERSON, GSFC/S PEARSON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 856 UNIVERSITY OF MICHIGAN – ANN ARBOR **6210**
EFFECTS OF MICROGRAVITY ON DEVELOPMENT OF THIGH MU SCLES
05/25/1994 – 12/31/1997 FY97: $68,000 Total: $287,398
Prin. Invest.: K I CLARK, K F BARALD
Tech. Officer: ARC/D A REISS–BUBENHEIM, ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 2 5224 UNIVERSITY OF MICHIGAN – ANN ARBOR **6211**
MICROWAVE TECHNIQUES FOR REMOTE DETECTION OF TPS FAILURE
07/08/1997 – 12/31/1997 FY97: $20,000 Total: $20,000
Prin. Invest.: M C DOBSON
Tech. Officer: ARC/J S SALUTE
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 355 UNIVERSITY OF MICHIGAN – ANN ARBOR **6212**
FUNDAMENTALS OF MOLD–FREE CASTINGS EXPERIMENTAL AN D COMPUTATIONAL STUDIES
07/11/1994 – 07/10/1996 FY97: –$148 Total: $99,852
Prin. Invest.: G TRYGGVASON, S CECCIO
Tech. Officer: LERC/R ROGERS, LERC/T GLASGOW
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 381 UNIVERSITY OF MICHIGAN – ANN ARBOR **6213**
POLYMER PRECURSORS FOR BARIUM AND STRONTIUM ALUNIN OSILICATE FIBER REINFORCE CERAMIC MATRICES
12/20/1994 – 08/26/1997 FY97: $7,170 Total: $89,977
Prin. Invest.: R M LAINE
Tech. Officer: LERC/N P BANSAL
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 474 UNIVERSITY OF MICHIGAN – ANN ARBOR **6214**
INVESTIGATION OF DROOP FORMATION BY VORTEX RING IN MICROGRAVITY
05/20/1996 – 05/19/2000 FY97: $47,000 Total: $136,832
Prin. Invest.: L P BERNAL
Tech. Officer: LERC/J B MCGUILLEN
CASE Category: 46 – MECHANICAL ENGR

NCC 3 482 UNIVERSITY OF MICHIGAN – ANN ARBOR **6215**
RADIANT EXTINCITION OF GASOUS DIFFUSION FLAMES
06/15/1996 – 06/14/2000 FY97: $52,500 Total: $120,000
Prin. Invest.: A ATREYA
Tech. Officer: LERC/K SACKSTEADER
CASE Category: 13 – PHYSICS

NCC 5 146 UNIVERSITY OF MICHIGAN – ANN ARBOR **6216**
RESEARCH FOR GRAND CHALLENGE APPLICATIONS
08/02/1996 – 08/02/1999 FY97: $500,000 Total: $760,000
Prin. Invest.: T GOMBOSI
Tech. Officer: GSFC/J R FISCHER
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NCC 8 84 UNIVERSITY OF MICHIGAN – ANN ARBOR **6217**
RESEARD GGS/POLAR TIDE CO–INVESTIGATOR PROGRAM MO & DA PHASE
02/21/1996 – 10/29/1997 FY97: $0 Total: $88,920
Prin. Invest.: A F NAGY, J U KOZYRA, NONE
Tech. Officer: MSFC/T E MOORE, MSFC/C J POLLOCK
CASE Category: 13 – PHYSICS

NGT 10028 UNIVERSITY OF MICHIGAN – ANN ARBOR **6218**
USERC PROGRAM
12/22/1994 – 09/30/1996 FY97: $0 Total: $421,197
Prin. Invest.: F T ULABY
Tech. Officer: HQ/G JOHNSTON
CASE Category: 49 – ENGINEERING, OTHER

NGT 30103 UNIVERSITY OF MICHIGAN – ANN ARBOR **6219**
NGT–30103/UNIV MICHIGAN/GLOBAL CHANGE FELLOWSHIP PROGRAM
09/04/1992 – 08/31/1996 FY97: –$856 Total: $65,144
Prin. Invest.: L L GEZON
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 30219 UNIVERSITY OF MICHIGAN – ANN ARBOR **6220**
GLOBAL CHANGE FELLOWSHIP PROGRAM
09/30/1993 – 09/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: P J SAMSON
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30258 UNIVERSITY OF MICHIGAN – ANN ARBOR **6221**
GLOBAL CHANGE FELLOWSHIP AWARD
09/21/1994 – 10/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: J A TEERI
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 40007 UNIVERSITY OF MICHIGAN – ANN ARBOR **6222**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
10/18/1989 – 01/31/1999 FY97: $0 Total: $2,580,000
Prin. Invest.: R JOHNSON
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51070 UNIVERSITY OF MICHIGAN – ANN ARBOR **6223**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/02/1993 – 06/30/1996 FY97: –$1,480 Total: $64,520
Prin. Invest.: G TRYGGVASON
Tech. Officer: HQ/D A HOLLAND
CASE Category: 46 – MECHANICAL ENGR

NGT 51120 UNIVERSITY OF MICHIGAN – ANN ARBOR **6224**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/09/1993 – 06/30/1996 FY97: $0 Total: $44,000
Prin. Invest.: D C MARTIN
Tech. Officer: MSFC/F SIX
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 51235 UNIVERSITY OF MICHIGAN – ANN ARBOR **6225**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/07/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: K G POWELL
Tech. Officer: LERC/F MONTEGANI
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51256 UNIVERSITY OF MICHIGAN – ANN ARBOR **6226**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/17/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: A M WAAS
Tech. Officer: LARC/L EVANS
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51323 UNIVERSITY OF MICHIGAN – ANN ARBOR **6227**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/06/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: T I GOMBOSI
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51335 UNIVERSITY OF MICHIGAN – ANN ARBOR **6228**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/26/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: T I GOMBOSI
Tech. Officer: HQ/D HOLLAND
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 51408 UNIVERSITY OF MICHIGAN – ANN ARBOR **6229**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/17/1995 – 08/31/1998 FY97: $0 Total: $44,000
Prin. Invest.: J N BERGMAN
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51409 UNIVERSITY OF MICHIGAN – ANN ARBOR **6230**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/17/1995 – 08/31/1998 FY97: $0 Total: $44,000
Prin. Invest.: J P BOYD
Tech. Officer: HQ/D HOLLAND
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 51689 UNIVERSITY OF MICHIGAN – ANN ARBOR **6231**
GRAD. STUD. RESEARCH PROG
08/02/1996 – 07/31/1997 FY97: $0 Total: $22,000
Prin. Invest.: F NORI
Tech. Officer: HQ/GLESANE
CASE Category: 13 – PHYSICS

NGT 90207 UNIVERSITY OF MICHIGAN – ANN ARBOR **6232**
UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
09/14/1993 – 08/14/1996 FY97: $0 Total: $36,000
Prin. Invest.: S GREGERMAN
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90262 UNIVERSITY OF MICHIGAN – ANN ARBOR **6233**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
12/19/1994 – 08/14/1996 FY97: $0 Total: $48,000
Prin. Invest.: S GREGERMAN
Tech. Officer: HQ/D K RUSSELL
CASE Category: 22 – COMPUTER SCIENCE

NGT 1 52136 UNIVERSITY OF MICHIGAN – ANN ARBOR **6234**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/19/1996 – 06/30/1998 FY97: $18,000 Total: $40,000
Prin. Invest.: J F DRISCOLL
Tech. Officer: LARC/G S DISKIN
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 2 52215 UNIVERSITY OF MICHIGAN – ANN ARBOR **6235**
GROUPING RULES IN CLASSIFIER SYSTEMS TOWARDS THE E VOLUTION OF HIERARCHICAL ORGANIZATION
07/16/1996 – 08/31/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: J H HOLLAND*Prin. Invest.:* NONE
Tech. Officer: ARC/P D LAIRD
CASE Category: 45 – ELECTRICAL ENGR

NGT 3 52311 UNIVERSITY OF MICHIGAN – ANN ARBOR **6236**
A PROPOSAL TO DEVELOP CATHODE TECHNOLOGY FOR SUB–K ILOWATT STATIONARY PLASMA THRUSTERS
06/21/1996 – 06/30/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: A D GALLIMORE*Prin. Invest.:* NONE
Tech. Officer: LERC/F MONTEGANI
CASE Category: 49 – ENGINEERING, OTHER

NGT 3 52319 UNIVERSITY OF MICHIGAN – ANN ARBOR **6237**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/06/1996 – 08/14/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: S CECCIO
Tech. Officer: LERC/D MONTEGANI
CASE Category: 46 – MECHANICAL ENGR

NGT 3 52331 UNIVERSITY OF MICHIGAN – ANN ARBOR **6238**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/10/1997 – 07/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: A K GOSH
Tech. Officer: LERC/F J MONTEGANI
CASE Category: 49 – ENGINEERING, OTHER

NGT 3 52339 UNIVERSITY OF MICHIGAN – ANN ARBOR **6239**
GRADUATE STUDENT RESEARCHERS PROGRAM GRADUATE STUDENT RESEARCHERS PROGRAM
09/17/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D PAULIDIS
Tech. Officer: LERC/F J MONTEGANI
CASE Category: 49 – ENGINEERING, OTHER

NGT 4 52404 UNIVERSITY OF MICHIGAN – ANN ARBOR **6240**
DESCRIPTION OF CONTRACT GRADUATE STUDENT RESEARCHERS PROGRAM
06/10/1997 – 08/01/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D BERNSTEIN
Tech. Officer: DFRC/K K GUPTA, DFRC/L S VOELKER
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 27 UNIVERSITY OF MICHIGAN – ANN ARBOR **6241**
INVESTIGATION OF THE ORIGIN AND CURRENT STATE OF J UPITER'S ATMOSPHERE USING GALILEO PROBE MASS
07/15/1996 – 07/31/1997 FY97: $22,000 Total: $44,000
Prin. Invest.: S U ATREYA
Tech. Officer: GSFC/G A SOFFEN, GSFC/P MAHAFFY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 5 39 UNIVERSITY OF MICHIGAN – ANN ARBOR **6242**
FINAL YEAR OF FUNDING FOR USERC PROGRAM FOR GRADUA SHIPS. (PREVIOUS GRANT# NGT–10028)
05/30/1997 – 10/31/1997 FY97: $82,497 Total: $82,497
Prin. Invest.: F ULABY
Tech. Officer: GSFC/R AVANT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40062 UNIVERSITY OF MICHIGAN – ANN ARBOR **6243**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
03/15/1997 – 01/31/1998 FY97: $380,000 Total: $380,000
Prin. Invest.: R M JOHNSON
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50002 UNIVERSITY OF MICHIGAN – ANN ARBOR **6244**
L–BAND MEASUREMENT OF SOIL MOISTURE
09/09/1996 – 02/28/1997 FY97: $0 Total: $5,500
Prin. Invest.: A ENGLAND
Tech. Officer: GSFC/G A SOFFEN, GSFC/D LE VINE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 50024 UNIVERSITY OF MICHIGAN – ANN ARBOR **6245**
VARIATION DATA ASSIMILATION FOR ATMOSPHERIC SOLITA
07/14/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J BOYD
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50025 UNIVERSITY OF MICHIGAN – ANN ARBOR **6246**
X–RAY EMISSION FROM GAS AND STARS IN ELLIPTICAL GA
07/14/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J BREGMAN
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50114 UNIVERSITY OF MICHIGAN – ANN ARBOR **6247**
GRADUATE STUDENT RESEARCHERS PROGRAM – STUDENT: C
09/04/1997 – 07/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: F NORI
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50154 UNIVERSITY OF MICHIGAN – ANN ARBOR **6248**
THE ABUNDANCE AND DISTRIBUTION OF S02 IN IO'S ATMOSPHERE
09/11/1997 – 09/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: G BALLESTER
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90052 UNIVERSITY OF MICHIGAN – ANN ARBOR **6249**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
03/05/1997 – 08/14/1998 FY97: $48,000 Total: $48,000
Prin. Invest.: S GREGERMAN
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 49 – ENGINEERING, OTHER

NGT 8 52805 UNIVERSITY OF MICHIGAN – ANN ARBOR **6250**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/01/1995 – 08/01/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: C AKERLOT
Tech. Officer: MSFC/F SIX
CASE Category: 13 – PHYSICS

NGT 8 52824 UNIVERSITY OF MICHIGAN – ANN ARBOR **6251**
GRAD STUDENT RESEARCH PROGRAM FOR SVEN BILEN
09/25/1996 – 01/04/1997 FY97: $0 Total: $7,333
Prin. Invest.: S G BILEN
Tech. Officer: MSFC/D STONE
CASE Category: 45 – ELECTRICAL ENGR

NGT 9 3 UNIVERSITY OF MICHIGAN – ANN ARBOR **6252**
EFFECTS OF AGE/VESTIBULAR REHABILITATION ON POSTURAL CONTROL
05/31/1995 – 08/31/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: A D KUO
Tech. Officer: JSC/D G SICKOREZ
CASE Category: 47 – METAL & MATERIALS ENGR

NGT10 52613 UNIVERSITY OF MICHIGAN – ANN ARBOR **6253**
GRADUATE STUDENT RESEARCH GRANT
09/01/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: A PRAKASH
Tech. Officer: KSC/G BURKINGHAM
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1175 WAYNE STATE UNIVERSITY **6254**
ACTIVE CONTROL OF PANEL VIBRATIONS INDUCED BY A BOUNDRY-LAYER FLOW
08/10/1990 – 06/30/1998 FY97: $0 Total: $90,295
Prin. Invest.: P L CHOW
Tech. Officer: LARC/L MAESTRELLO, LARC/C A POWELL
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 1043 WAYNE STATE UNIVERSITY **6255**
MODELING & VERIFICATION OF HYBRID SYSTEMS
05/01/1996 – 04/30/1998 FY97: $30,000 Total: $60,000
Prin. Invest.: F LIN
Tech. Officer: ARC/G MEYER
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1729 WAYNE STATE UNIVERSITY **6256**
SOOT AD RADIATION–MEASUREMENT IN MICROGRAVITY TURB ULENT JET DIFFUSION FLAMES
04/01/1995 – 03/31/1998 FY97: $82,000 Total: $234,000
Prin. Invest.: J KU
Tech. Officer: LERC/P S GREENBERG
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1800 WAYNE STATE UNIVERSITY **6257**
EXIMER LASER BASED COMBUSTION DIAGNOSTICS
01/22/1996 – 01/21/1999 FY97: $50,000 Total: $125,000
Prin. Invest.: E W ROTHE, G P RECK
Tech. Officer: LERC/R C ANDERSON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3260 WAYNE STATE UNIVERSITY **6258**
NAGW-3260/WAYNE STATE UNIV/ARCHITECTURALLY REALIST IC MODELS FOR OPTICAL RADIATION REGIME IN VEGETAT
11/27/1992 – 09/30/1998 FY97: $0 Total: $453,039
Prin. Invest.: N S GOEL
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG13 60 WESTERN MICHIGAN UNIVERSITY **6259**
TWO-DIMENSIONAL ANALYSIS OF ALTITUDE DIFFUSER
09/30/1997 – 10/01/1998 FY97: $20,000 Total: $20,000
Prin. Invest.: C CHRISTOPHER
Tech. Officer: SSC/JOYCE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

MINNESOTA

NAG 5 3719 AUGSBURG COLLEGE **6260**
A WEB SERVER FOR MACCS MAGNETOMETER DATA
01/30/1997 – 01/31/1998 FY97: $10,353 Total: $10,353
Prin. Invest.: D J ENGBRETSON
Tech. Officer: GSFC/J WILLETT
CASE Category: 13 – PHYSICS

NAG 8 1001 AUGSBURG COLLEGE **6261**
JOVE
12/08/1993 – 05/31/1997 FY97: $0 Total: $82,548
Prin. Invest.:
Tech. Officer: MSFC/F SIX
CASE Category: 11 – ASTRONOMY

NAGW 4199 BEMIDJI STATE UNIVERSITY **6262**
RODENT LENS EPITHELIUM
12/07/1994 – 12/31/1996 FY97: $0 Total: $35,000
Prin. Invest.: A L LINDGREN
Tech. Officer: HQ/V THORPE
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 3095 MANKATO STATE UNIVERSITY **6263**
GAMMA RAY BURST MODEL CONSTRAINTS IMPOSED BY BATSE OBSERVATIONS
10/05/1995 – 10/14/1996 FY97: $0 Total: $40,000
Prin. Invest.: T C OWENS
Tech. Officer: GSFC/J RICHARDS, GSFC/N WHITE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3591 MANKATO STATE UNIVERSITY **6264**
BATSE POST-3B SKY EXPOSURE
01/02/1997 – 12/14/1997 FY97: $40,006 Total: $40,006
Prin. Invest.: J E HAKKILA
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 8 192 MANKATO STATE UNIVERSITY **6265**
PROJECT JOVE
04/25/1991 – 12/01/1997 FY97: $0 Total: $124,007
Prin. Invest.: J HAKKILA, H SHENG, E BOYD
Tech. Officer: MSFC/F SIX
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 4904 MOORHEAD STATE UNIVERSITY **6266**
EXPERIMENTAL DETERMINATION OF THE EFFECTS OF F02 A ON ACTIVITIES IN SILICATE MELTS
06/19/1997 – 07/31/1998 FY97: $30,000 Total: $30,000
Prin. Invest.: D O COLSON
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAGW 5108 MOORHEAD STATE UNIVERSITY **6267**
EXPERIMENTAL DETERMINATION OF THE EFFECTS OF FO2 & VOLATILE FUGACITIES ON ACTIVITIES INSILICATE
07/31/1996 – 09/30/1997 FY97: $0 Total: $30,000
Prin. Invest.: R O COLSON
Tech. Officer: HQ/J NUTH, HQ/H C BRINTON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 1 1788 SAINT CLOUD STATE UNIVERSITY **6268**
DEFINING NAVIGATION ACCURACIES FOR LOW VISIBILITY TAXING ON THE AIRPORT SURFACE
12/15/1995 – 05/31/1997 FY97: $141,174 Total: $246,824
Prin. Invest.: D RANKIN
Tech. Officer: LARC/R W WILLS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1380 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6269**
FEEDBACK CONTROL LAWS FOR HIGHLY MANEUVERABLE AIRCRAFT
02/13/1992 – 01/31/1996 FY97: –$1 Total: $195,012
Prin. Invest.: W L GARRARD, G BALAS
Tech. Officer: LARC/B J BACON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1498 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6270**
COMPUTATIONAL METHODS FOR THE SIMULATION OF HYPER– SONIC RE–ENTRY FLOWS
05/25/1993 – 06/15/1997 FY97: $0 Total: $226,390
Prin. Invest.: G V CANDLER
Tech. Officer: LARC/K SUTTON, LARC/P A GNOFFO
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1736 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6271**
AN EXPERIMENTAL/MODELING STUDYING OF JET ATTACHMENT DURING COUNTERFLOW THRUST VECTORING
07/10/1995 – 07/09/1996 FY97: –$72 Total: $49,095
Prin. Invest.: P J STRYKOWSKI
Tech. Officer: LARC/D J WING, LARC/B L BERRIER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1824 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6272**
ROBUST SYSTEM IDENTIFICATION FOR CONTROL
04/01/1996 – 09/30/1996 FY97: $0 Total: $25,000
Prin. Invest.: G J BALAS
Tech. Officer: LARC/K B LIM
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1938 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6273**
INVESTIGATION OF MESOSCALE VARIABILITY IN CONVECTIVE BOUNDARY LAYER DEVELOPMENT USING
05/28/1997 – 05/31/1999 FY97: $53,639 Total: $53,639
Prin. Invest.: K J DAVIS*Prin. Invest.:* NONE
Tech. Officer: LARC/S ISMAIL, LARC/W T STEVENS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 880 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6274**
HIGH ENERGY DYNAMICS OF COMPLEX CHEMICAL PROCESSES
01/19/1994 – 10/31/1995 FY97: –$376 Total: $109,624
Prin. Invest.: D G TRUHLAR
Tech. Officer: ARC/S R LANGHOFF
CASE Category: 12 – CHEMISTRY

NAG 2 904 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6275**
ROBUST PRECONDITIONED ITERATIVE TECHNIQUES FOR CFE APPLICATIONS
05/25/1994 – 12/31/1996 FY97: $0 Total: $132,397
Prin. Invest.: Y SAAD
Tech. Officer: ARC/A C WOO
CASE Category: 22 – COMPUTER SCIENCE

NAG 2 1125 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6276**
NUMERICAL SIMULATION OF ATMOSPHERIC ENTRY FLOWS
04/11/1997 – 12/31/1997 FY97: $50,000 Total: $50,000
Prin. Invest.: G V CANDLER
Tech. Officer: ARC/D R OLYNICK, ARC/M LOOMIS
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 2 1151 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6277**
PERFORMANCE & PROTABILITY ISSUES IN SHARED FILE SY STEMS
08/12/1997 – 06/30/1998 FY97: $110,879 Total: $110,879
Prin. Invest.: M T O'KEEFE
Tech. Officer: ARC/J R LEKASHMAN, ARC/S F WALWORTH
CASE Category: 22 – COMPUTER SCIENCE

NAG 3 1332 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6278**
ARC CATHODE ATTACHMENT STUDY
02/27/1992 – 09/30/1997 FY97: $0 Total: $195,000
Prin. Invest.: J V HEBERLEIN
Tech. Officer: LERC/C J SARMIENTO, HQ/F M CURRAN
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1638 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6279**
FILM COOLING WITH ANISOTROPIC DIFFUSION AND HOLE E NTRY EFFECTS: EXPERIMENTS AND COMPUTATION
07/01/1994 – 06/30/1998 FY97: $47,663 Total: $305,177
Prin. Invest.: S V PATANKAR, T W SIMON
Tech. Officer: LERC/J R SCHWAB
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1721 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6280**
A NOVEL SOFT–SWITCHIN DC–DC CONVERTER WITH ASYMETR ICL CYCLE CONTROL
03/27/1995 – 09/15/1996 FY97: –$2,018 Total: $57,106
Prin. Invest.: N MOHAN
Tech. Officer: LERC/I G HANSEN, LERC/M E ROTH
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1732 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6281**
MEASUREMENTS IN TRANSITIONAL BOUNDARY LAYER UNDER LOW–PRESSURE TURBINE AIRFOIL CONDITIONS
04/01/1995 – 01/30/1998 FY97: $80,000 Total: $182,529
Prin. Invest.: T W SIMON
Tech. Officer: LERC/F F SIMON
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1975 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6282**
ROBUST NONLINEAR FEEDBACK CONTROL OF AIRCRAFT PROP ULSION SYSTEMS
10/22/1996 – 10/31/1999 FY97: $73,866 Total: $73,866
Prin. Invest.: W L GARRARD, G T BALAS
Tech. Officer: LERC/S GARG
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 2108 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6283**
DEVELOPMENT OF A GENERALIZED FRAMEWORK FOR IDENTIF YING AND STUDYING SCALEINVARIANT RELATIONSHIPS..
10/08/1992 – 10/14/1997 FY97: $0 Total: $270,450
Prin. Invest.: E FOUFOULA–GEORGIOU
Tech. Officer: GSFC/R F CAHALAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2698 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6284**
ENHANCED ACCESS FOR FOREST MANAGEMENT PLANNING
08/25/1994 – 03/14/1998 FY97: $196,508 Total: $646,982
Prin. Invest.: T E BURK
Tech. Officer: GSFC/F HASLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2838 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6285**
DATA ANALYSIS OF THE WAVES EXPERIMENT
12/14/1994 – 02/28/1998 FY97: $370,000 Total: $1,009,995
Prin. Invest.: P J KELLOGG
Tech. Officer: GSFC/M L KAISER
CASE Category: 11 – ASTRONOMY

NAG 5 2980 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6286**
UNCOVERING ULTRALUMINOUS GALAXIES IN THE IRAS FSC THROUGH RADIO AND OPTICAL IDEN
06/27/1995 – 06/30/1998 FY97: $5,764 Total: $42,888
Prin. Invest.: G S ALDERING
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3217 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6287**
ANALYSIS OF DATA FROM THE UCLA MAGNETOMETER ON THE NASA POLAR SPACECRAFT
04/26/1996 – 04/30/1998 FY97: $152,261 Total: $202,261
Prin. Invest.: C CATELL
Tech. Officer: GSFC/R A HOFFMAN
CASE Category: 13 – PHYSICS

NAG 5 3373 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6288**
RELATIVE ABUNDANCES AND STAR FORMATION HISTORIES O F DWARF GALAXIES
08/28/1996 – 08/31/1997 FY97: $0 Total: $107,507
Prin. Invest.: E D SKILLMAN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3395 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6289**
MINNESOTA BLOCK GRANT FOR ISO OBSERVATIONS
09/09/1996 – 08/14/1997 FY97: $0 Total: $80,200
Prin. Invest.: R GEHRZ
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3533 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6290**
THERMOREGULATION AND HEAT EXCHANGE IN A NONUNIFORM DURING SIMULATED EXTENDED EVA
11/18/1996 – 08/31/1997 FY97: $223,664 Total: $223,664
Prin. Invest.: V S KOSCHEVEV
Tech. Officer: GSFC/J D COLLIER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 3735 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6291**
STUDY FOR AN AURORAL MULTI-PROBE SATELLITE MISSION
03/03/1997 – 02/28/1999 FY97: $200,000 Total: $200,000
Prin. Invest.: D A CATTELL
Tech. Officer: GSFC/R HOWARD
CASE Category: 13 – PHYSICS

NAG 5 3980 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6292**
KINETICS & MECHANISMS OF ATMOSPHERIC PHOTOXIDATION HYDROCHLOROFLUOROCARBONS & HYDROFLUOROCARBONS
03/05/1997 – 01/31/1998 FY97: $102,863 Total: $102,863
Prin. Invest.: R W CARR
Tech. Officer: GSFC/M J KURYLO
CASE Category: 11 – ASTRONOMY

NAG 5 3998 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6293**
WEB EXPLORATION TOOLS FOR A FAST FEDERATED OPTICAL
03/06/1997 – 02/28/1998 FY97: $115,300 Total: $115,300
Prin. Invest.: P M HUMPHREYS
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 4330 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6294**
RARE GAS AND NITROGEN STUDIES ON LUNAR, METEORITIC TERRESTRIAL MATERIALS
04/28/1997 – 12/15/1997 FY97: $138,000 Total: $138,000
Prin. Invest.: D O PEPIN
Tech. Officer: GSFC/D F NAVA
CASE Category: 12 – CHEMISTRY

NAG 5 4466 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6295**
A THREE–DIMENSIONAL, TIME–DEPENDENT MODEL OF THE I EN WAVES WITH THE IONOSPHERE
05/21/1997 – 04/30/1998 FY97: $70,942 Total: $70,942
Prin. Invest.: D L LYSAK
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 4705 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6296**
IR IMAGING, SPECTROSCOPY & PHOTOMETRIC STUDIES OF
06/11/1997 – 06/30/1998 FY97: $27,500 Total: $27,500
Prin. Invest.: D D GEHRZ
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 4709 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6297**
ANOMALOUS ISOTOPE ABUNDANCES IN EXTRATERRESTRIAL M
06/11/1997 – 03/31/1998 FY97: $48,000 Total: $48,000
Prin. Invest.: D O PEPIN
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4956 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6298**
RHEOLOGY OF PARTIALLY MOLTEN AMMONIA–WATER ICE
06/23/1997 – 03/31/1998 FY97: $49,400 Total: $49,400
Prin. Invest.: D L KOHLSTEDT
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 5048 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6299**
A ROCKET EXPERIMENT TO STUDY PULSATING AURORA
11/02/1995 – 02/28/1998 FY97: $0 Total: $25,045
Prin. Invest.: P J KELLOGG
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 – PHYSICS

NAG 5 5055 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6300**
MAGNETOHYDRODYNAMICS (MHD) AND DIFFUSE SHOCK ACCELERATION
03/27/1996 – 02/28/1998 FY97: $88,602 Total: $118,602
Prin. Invest.: T W JONES
Tech. Officer: GSFC/H C NEEDLEMAN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 5077 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6301**
ENERGY DEPENDENCE OF FRAGMENTATION OF UH COSMIC RAY NUCLEI
05/22/1996 – 03/31/1998 FY97: $0 Total: $69,000
Prin. Invest.: C J WADDINGTON
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5113 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6302**
THE PROPAGATION OF UH COSMIT RAY NUCLEI FUNDING FOR FIRST YEAR OF GRANT
04/09/1997 – 03/31/1999 FY97: $37,280 Total: $37,280
Prin. Invest.: C J WADDINGTON
Tech. Officer: GSFC/H C NEDDLEMAN, GSFC/B A MERRITT
CASE Category: 12 – CHEMISTRY

NAG 5 6191 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6303**
TITLE: MORPHOLOGICAL ANALYSIS OF BRAIDED RIVERS U
08/13/1997 – 07/31/2000 FY97: $84,254 Total: $84,254
Prin. Invest.: E FOUFOULA–GEORGI
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 8 1258 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6304**
ATOMISTIC SIMULATIONS OF CADMIUM TELLURIDE
04/15/1996 – 04/16/1998 FY97: $44,000 Total: $132,000
Prin. Invest.: J DERBY
Tech. Officer: MSFC/C TALLEY, MSFC/D NOEVER
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1349 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6305**
SELF–ASSEMBLY OF HEPATOCYTE SPHEROIDS IN MICRO– GRAVITY
06/19/1997 – 11/30/1997 FY97: $89,000 Total: $89,000
Prin. Invest.: W S HU, L HANSEN, R KEMMEL
Tech. Officer: MSFC/C R TALLEY, JSC/S R GONDA
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 9 449 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6306**
FINITE ELEMENT METHODOLOGY OF DEVEL COMPRESSIBLE FLOWS
08/01/1990 – 07/31/1997 FY97: $0 Total: $81,814
Prin. Invest.: T TEZDYUAR
Tech. Officer: JSC/C LI
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 9 863 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6307**
SOLAR WIND SAMPLE RETURN DISCOVERY MISSION
03/11/1996 – 05/13/1998 FY97: $0 Total: $15,000
Prin. Invest.: R O PEPIN
Tech. Officer: JSC/E STANSBERY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 9 919 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6308**
PARRALLEL 3–D COMP OF FLUID DYNAMICS AND FLUID ...
12/04/1996 – 10/31/1999 FY97: $48,000 Total: $48,000
Prin. Invest.: T E TEZDUYAR
Tech. Officer: JSC/J MURATORE, JSC/F MARTIN
CASE Category: 49 – ENGINEERING, OTHER

NAGW 800 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6309**
KINETICS & MECHANISMS OF STRATOSPHERIC CHLORINE RELEASE FROM CHLOROFLOUROMETHYL SPECIES
09/01/1985 – 01/31/1997 FY97: $0 Total: $1,038,009
Prin. Invest.: R W CARR
Tech. Officer: HQ/M J KURYLO, HQ/R F HAMPSON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 2004 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6310**
STUDIES OF ULTRA HEAVY COSMIC RAY NUCLEI
05/29/1990 – 09/30/1997 FY97: $0 Total: $650,944
Prin. Invest.: C J WADDINGTON
Tech. Officer: HQ/W V JONES, HQ/J C LING
CASE Category: 13 – PHYSICS

NAGW 2324 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6311**
INFRARED PHOTOMETRY AND SPECTROSCOPY OF BRIGHT COM ETS
12/11/1990 – 05/31/1997 FY97: $0 Total: $317,800
Prin. Invest.: R G GEHRZ
Tech. Officer: HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NAGW 2548 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6312**
UNIV MINNESOTA/NUMERICAL SIMULATION OF COSMIC RAY ACCELERATION IN SHOCKS
06/13/1991 – 02/28/1997 FY97: $0 Total: $150,863
Prin. Invest.: T W JONES
Tech. Officer: HQ/W V JONES, HQ/J C LING
CASE Category: 13 – PHYSICS

NAGW 2653 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6313**
STUDY OF TIME–DEPENDENT MAGNETOSPHERE/IONOSPHERE C OUPLING ON INTERMEDIATEAND SMALL SCALES
07/15/1991 – 04/30/1997 FY97: $0 Total: $361,192
Prin. Invest.: R L LYSAK
Tech. Officer: HQ/M M MELLOTT, HQ/J D BOHLIN
CASE Category: 11 – ASTRONOMY

NAGW 3014 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6314**
DETECTION AND INTERACTIONS OF ULTRA HEAVY NUCLEI A ND COSMIC RAY PROPAGATION
04/03/1992 – 08/31/1996 FY97: $0 Total: $165,717
Prin. Invest.: C J WADDINGTON
Tech. Officer: HQ/W V JONES, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 3102 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6315**
PHYSICAL PROPERTIES OF PARTIALLY MOLTEN AMMONIA WA TER ICE PERMEABILITY AND RHEOLOGY
06/17/1992 – 03/31/1998 FY97: $0 Total: $170,009
Prin. Invest.: D L KOHISTEDT
Tech. Officer: HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3189 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6316**
UNIV MINNESOTA/RELATIVE ABUNDANCE AND STAR FORMATION HISTORIES OF DWARF GALAXIES
08/19/1992 – 09/30/1997 FY97: $0 Total: $360,748
Prin. Invest.: E D SKILLMAN
Tech. Officer: HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 3324 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6317**
THE CONDENSATE FRACTION IN SUPERFLUID HELIUM DROPL ETS
01/13/1993 – 09/30/1997 FY97: $0 Total: $270,000
Prin. Invest.: J W HALEY
Tech. Officer: HQ/C RAY
CASE Category: 13 – PHYSICS

NAGW 3336 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6318**
RARE GAS AND NITROGEN STUDIES ON LUNAR, METEORITIC , AND SELECTED TERRESTRIAL MATERIALS
01/13/1993 – 09/30/1997 FY97: $0 Total: $459,449
Prin. Invest.: R O PEPIN
Tech. Officer: HQ/H C BRINTON
CASE Category: 13 – PHYSICS

NAGW 3610 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6319**
ANOMALOUS ISOTOPIC ABUNDANCES IN EXTRATERRESTRIAL MAT
05/21/1993 – 09/30/1997 FY97: $0 Total: $195,674
Prin. Invest.: A NIER
Tech. Officer: HQ/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3751 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6320**
AN EXPERIMENTAL STUDY OF ATMOSPHERIC HOMOGENEOUS N UCLEA-TION
09/23/1993 – 09/30/1997 FY97: $0 Total: $198,890
Prin. Invest.: P M MCMURRY
Tech. Officer: HQ/J A KAYE, HQ/A C JANETOS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4216 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6321**
STUDY OF HIGH TIME RESOLUTION ELECTRIC AND MAGNETI C FIELDS
11/17/1994 – 08/31/1997 FY97: $0 Total: $186,100
Prin. Invest.: J R WYGANT
Tech. Officer: HQ/M M MELLOTT, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4794 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6322**
THERMOREGULATION & HEAT EXCHANGE IN NONUNIFORM THERMAL ENVIRONMENT DURING SIMULATED EXTENDED EVA
09/22/1995 – 02/28/1997 FY97: $0 Total: $251,704
Prin. Invest.: V S KOSCHEYEV
Tech. Officer: HQ/J STOKLOSA
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4825 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6323**
CONSTRUCTION AND OPERATION OF 1–5 MIC4ON ARRAY CAMERA
10/17/1995 – 06/30/1997 FY97: $0 Total: $25,000
Prin. Invest.: R D GEHRZ
Tech. Officer: HQ/L J CAROFF, HQ/L J CAROFF
CASE Category: 11 – ASTRONOMY

NAS 5 32454 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6324**
MAGNETIC MASS SPECTROMETERS
03/04/1993 – 12/31/1996 FY97: $1,000 Total: $858,500
Prin. Invest.: K MAUERSBERGER
Tech. Officer: GSFC/S BENNER
CASE Category: 13 – PHYSICS

NAS 5 32670 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6325**
INCORPORATING THE APS CATALOG OF THE POSS I & IMAGE ARCHIVE IN ADS
08/08/1994 – 09/30/1997 FY97: $0 Total: $172,888
Prin. Invest.: R HUMPHREYS
Tech. Officer: GSFC/D WEST
CASE Category: 42 – ASTRONAUTICAL ENGR

NAS 5 32994 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6326**
SCIENTIFIC AND TECHNICAL SUPPORT FOR THE UNIFIED RADIO AND PLASMA WAVE INVESTIGATION
02/08/1996 – 12/31/1997 FY97: $134,436 Total: $184,436
Prin. Invest.: K GOETZ, P J KELLOGG
Tech. Officer: GSFC/R J MACDOWELL
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 1 247 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6327**
ROBUST SYSTEM INDENTIFICATION FOR CONTROL MY 1/3
12/09/1996 – 12/08/1997 FY97: $49,996 Total: $49,996
Prin. Invest.: G J BALAS
Tech. Officer: LARC/K B LIM
CASE Category: 42 – ASTRONAUTICAL ENGR

NCC 2 809 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6328**
OPTIMAL TAKEOFF PROCEDURES FOR A CATEGORY A HELICO PTERS
07/08/1993 – 02/28/1998 FY97: $58,020 Total: $237,025
Prin. Invest.: Y ZHAO
Tech. Officer: ARC/R T CHEN
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 868 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6329**
STUDIES
07/11/1994 – 09/14/1997 FY97: $0 Total: $233,177
Prin. Invest.: Y ZHAO
Tech. Officer: ARC/R A SLATTERY, ARC/V H CHENG
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 990 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6330**
AIRCRAFT SCHEDULING & CONFLICT RESOLUTION IN ATM
04/29/1997 – 04/30/1998 FY97: $99,493 Total: $99,493
Prin. Invest.: Y ZHAO
Tech. Officer: ARC/T J DAVIS, ARC/J E ROBINSON,III
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5156 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6331**
LARGE SCALE TURBULENT STRUCTURE IN SUPERSONIC JETS
08/23/1995 – 12/31/1996 FY97: $0 Total: $33,955
Prin. Invest.: T S LUNDGREN
Tech. Officer: ARC/N N MANSOUR
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5221 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6332**
THE EFFECT OF SWIRL ON TURBULENT STRUCTURES IN SUPERSONIC JETS
06/11/1997 – 11/30/1997 FY97: $22,416 Total: $22,416
Prin. Invest.: T S LUNDGREN
Tech. Officer: ARC/K SHARIFF
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 3 238 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6333**
COMPUTATION OF RADIATION HEAT TRANSFER IN AEROENGI NE COM-BUSTORS
12/20/1991 – 07/17/1996 FY97: $0 Total: $349,649
Prin. Invest.: S V PATANKAR
Tech. Officer: LERC/H S LEE
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 30213 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6334**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/26/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: E F GEORGIOU
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30320 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6335**
GLOBAL CHANGE FELLOWSHIP
08/31/1995 – 12/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: M B DAVIS
Tech. Officer: HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30352 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6336**
GLOBAL CHANGE FELLOWSHIP PROGRAM
10/06/1995 – 09/30/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: M PERSON
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 40027 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6337**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
04/03/1991 – 09/30/1997 FY97: $0 Total: $1,144,000
Prin. Invest.: P W WEIBLER
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51169 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6338**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/29/1993 – 06/30/1996 FY97: –$8 Total: $65,992
Prin. Invest.: W GARRARD
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51296 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6339**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/28/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: R D GEHRZ
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51334 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6340**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/08/1994 – 09/14/1997 FY97: $0 Total: $66,000
Prin. Invest.: E D SKILLMAN
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51359 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6341**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/22/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: J W HALLEY
Tech. Officer: HQ/G A LESANE
CASE Category: 13 – PHYSICS

NGT 5 8 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6342**
A SYSTEMATIC STUDY OF X–RAY SYNCHROTRON RADIATION FROM SHELL TYPE SUPERNOVA REMNANTS
06/26/1995 – 06/30/1997 FY97: $22,000 Total: $66,000
Prin. Invest.: L RUDNICK
Tech. Officer: GSFC/G A SOFFEN, GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NGT 5 30080 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6343**
THE HYDROLOGIC CYCLE OF THE LOWER KANSAS RIVER BAS OF LAND–ATMOSPHERE FEEDBACKS AND POTENTIAL EFFECT
09/11/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: M PERSON
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40040 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6344**
NATIONAL SPACE GRANT_COLLEGE AND FELLOWSHIP PROGRA
01/24/1997 – 02/28/1998 FY97: $205,000 Total: $205,000
Prin. Invest.: W L GARRARD
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50091 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6345**
STUDY OF LONG RANGE QUANTUM COHERENCE IN THE BOSE– LIQUID HELIUM FOUR.
09/05/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: HALLEY
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50104 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6346**
SPATIO–TEMPORAL ORGANIZATION OF REMOTELY SENSED RA DYNAMIC SCALING AND DEVELOPMENT OF FRAMEWORK FOR
09/06/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: G POURFOULA
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTIINTERDISCPL, OTHER

NGT 5 50123 UNIV OF MINNESOTA – MINNEAPOLIS–ST PAUL **6347**
THE DYNAMICAL EVOLUTION OF YOUNG SUPERNOVA REMNANT
09/10/1997 – 09/14/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: L RUDNICK
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

MISSISSIPPI

NAG 5 6086 JACKSON STATE UNIVERSITY **6348**
PACE/MSET AWARD
08/28/1997 – 07/31/1998 FY97: $99,985 Total: $99,985
Prin. Invest.: A MOHAMED
Tech. Officer: HQ/M STOUTSENBERGER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 6209 JACKSON STATE UNIVERSITY **6349**
BOUNDARY LAYER PROCESSES AFFECTING TROPICAL CYCLONES
08/06/1997 – 07/31/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: P FITZPATRICK
Tech. Officer: GSFC/R ADLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 1316 JACKSON STATE UNIVERSITY **6350**
JOVE RESEARCH
01/22/1997 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: R S REDDY
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4092 JACKSON STATE UNIVERSITY **6351**
PRE–ENGINEERING (9TH GRADE) MINORITY TRAINING SUMM ER PROGRAM
07/28/1994 – 11/30/1997 FY97: $47,949 Total: $137,951
Prin. Invest.: A K MOHAMED
Tech. Officer: HQ/B L WHITE
CASE Category: 49 – ENGINEERING, OTHER

NAGW 4487 JACKSON STATE UNIVERSITY **6352**
PRE COLLEGE AWARDS FOR EXCELLENCE IN MATHEMATICS S ICENCE ENGINEERING AND TECHNOLOGY
05/10/1995 – 07/31/1997 FY97: $0 Total: $199,970
Prin. Invest.: A MOHAMED
Tech. Officer: HQ/B L WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG13 32 JACKSON STATE UNIVERSITY **6353**
REMOTELY SENSED SPATIAL DATA AND PROPULSION DATA
12/22/1994 – 12/31/1997 FY97: $0 Total: $223,883
Prin. Invest.: W G BROWN
Tech. Officer: SSC/A T JOYCE
CASE Category: 22 – COMPUTER SCIENCE

NAG13 49 JACKSON STATE UNIVERSITY **6354**
JSU–NASA PARTNERSHIP FOR RESEARCH AND EDUCATIONAL PROGRAMS
06/23/1997 – 06/22/1998 FY97: $180,000 Total: $180,000
Prin. Invest.: P B TCHOUNWOU
Tech. Officer: SSC/A T JOYCE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 3 437 JACKSON STATE UNIVERSITY **6355**
SYSTEM DEFINITION AND OBJECT ORIENTED PROGRAMMING FOR A ROCKET ENGINE NUMERICAL SIMULATION
10/23/1995 – 10/22/1998 FY97: $104,279 Total: $198,955
Prin. Invest.: D N BHALLA
Tech. Officer: LERC/D E NOGA, LERC/K J DAVIDIAN
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 30273 JACKSON STATE UNIVERSITY **6356**
GLOBAL CHANGE FELLOWSHIP PROGRAM
10/10/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: B LUCAS
Tech. Officer: HQ/E LUCIER, HQ/G ASRAR
CASE Category: 22 – COMPUTER SCIENCE

NGT 90034 JACKSON STATE UNIVERSITY **6357**
YOUNG SCIENTIST PROGRAM
09/25/1990 – 06/30/1996 FY97: $0 Total: $520,063
Prin. Invest.: R SULLIVAN, W LUPTON
Tech. Officer: HQ/M MARGOLIS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90067 JACKSON STATE UNIVERSITY **6358**
YOUNG SCIENTIST PROGRAM
04/17/1997 – 06/30/1998 FY97: $95,948 Total: $95,948
Prin. Invest.: R SULLIVAN
Tech. Officer: GSFC/B WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT13 52713 JACKSON STATE UNIVERSITY **6359**
GRADUATE STUDENT PROGRAM SAME
08/15/1997 – 08/14/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: C HARPER
Tech. Officer: SSC/A R JOYCE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 1 1571 MISSISSIPPI STATE UNIVERSITY **6360**
WING DESIGN FOR A CIVIL TILTROTOR TRANSPORT AIRCRAFT
01/25/1994 – 12/31/1997 FY97: $35,700 Total: $133,992
Prin. Invest.: M RAIS–ROHANI
Tech. Officer: LARC/D J BAKER, LARC/J H STARNES
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1716 MISSISSIPPI STATE UNIVERSITY **6361**
MANUFACTURING AND COST CONSIDERATIONS IN MULTIDISCIPLINARY AIRCRAFT DESIGN
04/05/1995 – 09/30/1997 FY97: $49,744 Total: $122,379
Prin. Invest.: M RAIS–ROHANI
Tech. Officer: LARC/E B DEAN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1779 MISSISSIPPI STATE UNIVERSITY **6362**
MULTIGRID SOLUTION OF THE THREE–DIMENSIONAL INCOMPRESSIBLE NAVIER–STOKES EQUATIONS ON
11/13/1995 – 11/12/1997 FY97: $1 Total: $80,001
Prin. Invest.: D L WHITFIELD
Tech. Officer: LARC/W K ANDERSON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 1144 MISSISSIPPI STATE UNIVERSITY **6363**
PHYSICS–BASED MANEUVERING PREDITION OF COMMUTER AI RCRAFT
07/22/1997 – 07/31/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: D L WHITFIELD, L K TAYLOR, W R BRILEY
Tech. Officer: ARC/S S YOON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1699 MISSISSIPPI STATE UNIVERSITY **6364**
COMPUTATIONAL FLUID DYNAMICS OF ROTATING MACHINERY USING TRUBO
01/23/1995 – 11/08/1997 FY97: $95,000 Total: $319,999
Prin. Invest.: J M JANUS, D WHITFIELD, T M SWAFFORD
Tech. Officer: LERC/D L HUFF
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1712 MISSISSIPPI STATE UNIVERSITY **6365**
COMPUTATIONS OF ROTOR–STATOR INTERACTIONS USING TH E NAVIEER–STOKES EQUATION
02/21/1995 – 02/06/1998 FY97: $106,650 Total: $245,000
Prin. Invest.: D L WHITFIELD
Tech. Officer: LERC/E R MCFARLAND
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 2073 MISSISSIPPI STATE UNIVERSITY **6366**
HIGH-VOLTAGE SIC POWER DEVICE FIELD TERMINATIONS HIGH-VOLTAGE SIC POWER DEVICE FIELD TERMINATIONS
09/05/1997 – 08/11/1998 FY97: $4,953 Total: $4,953
Prin. Invest.: S E SADDOW, M S MAZZOLA
Tech. Officer: LERC/D J LARKIN
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 2006 MISSISSIPPI STATE UNIVERSITY **6367**
AN INVESTIGATION OF ERROR CHARACTERISTICS AND CODE PERFORMANCE
07/01/1992 – 06/30/1996 FY97: $0 Total: $138,700
Prin. Invest.: W J EBEL, F M INGELS
Tech. Officer: GSFC/W H MILLER, GSFC/R M MULLER
CASE Category: 49 – ENGINEERING, OTHER

NAG 8 104 MISSISSIPPI STATE UNIVERSITY **6368**
GRANT ENTITLED "AN INVESTIGATION OF ERROR CORRECTING TECHNIQUES FOR OMV DIGITIZED DATA."
05/12/1988 – 08/14/1997 FY97: $0 Total: $132,228
Prin. Invest.: F M INGELS
Tech. Officer: MSFC/H L THOMAS
CASE Category: 45 – ELECTRICAL ENGR

NAG 8 965 MISSISSIPPI STATE UNIVERSITY **6369**
PROTEIN RESEARCH
06/15/1993 – 06/30/1998 FY97: $64,167 Total: $440,000
Prin. Invest.: W WILSON
Tech. Officer: MSFC/D CARTER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 8 1158 MISSISSIPPI STATE UNIVERSITY **6370**
FUNDING PREDICTION PROTEIN CRYSTALLIZATON
07/21/1995 – 08/15/1998 FY97: $85,917 Total: $208,500
Prin. Invest.: W W WILSON
Tech. Officer: MSFC/D C CARTER, MSFC/T Y MILLER
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 3 221 MISSISSIPPI STATE UNIVERSITY **6371**
LOW-VELOCITY, OPPOSED-FLOW FLAME SPREAD IN A TRANS PORT-CONTROLLED, MICROGRAVITY ENVIRONMENT
06/19/1991 – 08/12/1998 FY97: $151,324 Total: $714,771
Prin. Invest.: R A ALTENKIRCH, S BHATTA CHARJEE
Tech. Officer: LERC/J A SALZMAN, LERC/H D ROSS
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 3 354 MISSISSIPPI STATE UNIVERSITY **6372**
REFLIGHT OF THE SOLID SURFACE COMBUSTION EXPERIMEN T ... (PREVIOUSLY MISSISSIPPI STATE UNIV.)
07/12/1994 – 01/11/1997 FY97: $0 Total: $235,166
Prin. Invest.: R A ALTENKIRCH
Tech. Officer: LERC/K R SACKSTEDER
CASE Category: 49 – ENGINEERING, OTHER

NCC 8 82 MISSISSIPPI STATE UNIVERSITY **6373**
ANALYSIS OF GAMMA RAY BURST TIME PROFILES
07/27/1995 – 09/15/1996 FY97: $0 Total: $13,320
Prin. Invest.: J P LESTRADE
Tech. Officer: MSFC/C A MEEGAN, MSFC/G J FISHMAN
CASE Category: 11 – ASTRONOMY

NGT 50950 MISSISSIPPI STATE UNIVERSITY **6374**
MISSISSIPPI STATE UNIV/GRADUATE STUDENT RESEARCHES PROGRAM
08/04/1992 – 08/15/1996 FY97: –$163 Total: $65,837
Prin. Invest.: W G STEELE
Tech. Officer: HQ/D GLASCO
CASE Category: 46 – MECHANICAL ENGR

NGT 70367 MISSISSIPPI STATE UNIVERSITY **6375**
NGT-70367/MISSISSIPPI STATE UNIV; GRADUATE STUDENT RESEARCHERS PROGRAM
11/23/1993 – 06/30/1996 FY97: –$334 Total: $65,666
Prin. Invest.: D MARCUM
Tech. Officer: HQ/D K RUSSELL
CASE Category: 46 – MECHANICAL ENGR

NAG13 51 MISSISSIPPI VALLEY STATE UNIV. **6376**
INCORPORATING INFORMATION TECHNOLOGY TO ENTERPRISE ZONES AND EMPOWERMENT COMMUNITY SCHOOL SYSTEMS
06/30/1997 – 06/29/1998 FY97: $189,664 Total: $189,664
Prin. Invest.: S J WHITE
Tech. Officer: JSC/N SULLIVAN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4152 TOUGALOO COLLEGE **6377**
NASA SUMMER INTERN PILOT PROGRAM
05/09/1995 – 03/31/1997 FY97: $0 Total: $78,286
Prin. Invest.: G V BRUNO
Tech. Officer: HQ/G A LASANE
CASE Category: 12 – CHEMISTRY

NAG 5 3884 UNIVERSITY OF MISSISSIPPI – MEDICAL CENTER **6378**
ADAPTIVE VISUAL VESTIBULAR MECHANISMS AMD GRAVITY
03/04/1997 – 02/28/1998 FY97: $64,303 Total: $64,303
Prin. Invest.: D ANGELAKI
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4377 UNIVERSITY OF MISSISSIPPI – MEDICAL CENTER **6379**
ADAPTIVE VISUAL-VESTIBULAR MECHANISMS AND GRAVITY
03/31/1995 – 09/30/1997 FY97: $0 Total: $237,234
Prin. Invest.: D E ANGELAKI
Tech. Officer: HQ/F SULZMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4507 UNIVERSITY OF MISSISSIPPI – MEDICAL CENTER **6380**
OTOLITH CANAL CONVERGENCE IN VESTIBULAR NUCLEI NEU RONS
05/19/1995 – 04/30/1997 FY97: $0 Total: $117,457
Prin. Invest.: J I DICKMAN
Tech. Officer: HQ/T K SCOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 2 863 UNIVERSITY OF MISSISSIPPI – MEDICAL CENTER **6381**
EFFECTS OF GRAVITY ON ATTACHMENT OF TENDON TO BONE
06/21/1994 – 05/31/1997 FY97: $0 Total: $86,443
Prin. Invest.: R B JOHNSON, L D ZARDIACKAS
Tech. Officer: ARC/D A REISS-BUBENHEIM, ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 4458 UNIVERSITY OF MISSISSIPPI – UNIVERSITY **6382**
EXPERIMENTAL PROGRAM TO STIMULATE COMPETITIVE RESEARCH
05/10/1995 – 06/30/1997 FY97: $0 Total: $149,999
Prin. Invest.: M R DINGERSON
Tech. Officer: HQ/A S MCGEE, HQ/E T SCHWARTZ
CASE Category: 49 – ENGINEERING, OTHER

NGT 40028 UNIVERSITY OF MISSISSIPPI – UNIVERSITY **6383**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
05/21/1991 – 09/30/1997 FY97: $0 Total: $1,178,950
Prin. Invest.: M R DINGERSON
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 70401 UNIVERSITY OF MISSISSIPPI – UNIVERSITY **6384**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
09/29/1994 – 06/30/1997 FY97: $22,000 Total: $66,000
Prin. Invest.: M T HARMANN
Tech. Officer: HQ/D K RUSSELL
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NGT 5 40032 UNIVERSITY OF MISSISSIPPI – UNIVERSITY **6385**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
02/13/1997 – 02/28/1998 FY97: $205,000 Total: $205,000
Prin. Invest.: M R DINGERSON
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL,OTHER

NGT13 52705 UNIVERSITY OF MISSISSIPPI – UNIVERSITY **6386**
SURFACE EFFECTS OF THE SOLID FUEL GRAIN ON COM- BUSTION INSTABILITY IN THE HYBRID ROCKET ENGINE
05/23/1996 – 08/01/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: P SUKANEK
Tech. Officer: SSC/A JOYCE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 4570 UNIVERSITY OF SOUTHERN MISSISSIPPI **6387**
OPTICAL ASSESSMENT OF BIOGEOCHEMICAL PROPERTIES IN APPLICATION TO MULTI-SPECTRAL AND HIGH RESOLUTION
07/23/1997 – 07/14/1998 FY97: $96,733 Total: $96,733
Prin. Invest.: S LOHRENZ
Tech. Officer: GSFC/J YODER
CASE Category: 33 – OCEANOGRAPHY

NAG 8 973 UNIVERSITY OF SOUTHERN MISSISSIPPI **6388**
POLYMERIZATION IN MICROGRAVITY
06/09/1993 – 06/30/1997 FY97: $0 Total: $300,000
Prin. Invest.: L J MATHIAS
Tech. Officer: MSFC/J P DOWNEY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG13 28 UNIVERSITY OF SOUTHERN MISSISSIPPI **6389**
EVALUATION OF POLYMER DISPERSED LIQUID CRYSTAL DEVICES
12/17/1993 – 10/31/1997 FY97: $0 Total: $218,270
Prin. Invest.: J WHITEHEAD
Tech. Officer: SSC/THURMAN, SSC/JOYCE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NGT 51261 UNIVERSITY OF SOUTHERN MISSISSIPPI **6390**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/08/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: L J MATHIAS
Tech. Officer: HQ/G LESANE
CASE Category: 43 – CHEMICAL ENGR

NGT 70394 UNIVERSITY OF SOUTHERN MISSISSIPPI **6391**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
08/30/1994 – 09/30/1997 FY97: $0 Total: $132,000
Prin. Invest.: G H RAYBORN
Tech. Officer: HQ/D K RUSSELL
CASE Category: 22 – COMPUTER SCIENCE

NGT 8 52807 UNIVERSITY OF SOUTHERN MISSISSIPPI **6392**
GRADUATE STUDENT RESCH PROGRAM
08/23/1995 – 01/23/1997 FY97: –$22,000 Total: $22,000
Prin. Invest.: J KOLIBAL
Tech. Officer: MSFC/F SIX, MSFC/S COTHREN
CASE Category: 22 – COMPUTER SCIENCE

NGT 8 52810 UNIVERSITY OF SOUTHERN MISSISSIPPI **6393**
RESEARCH
09/07/1995 – 08/31/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: D Y LOCHHEAD
Tech. Officer: MSFC/F SIX
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT13 52704 UNIVERSITY OF SOUTHERN MISSISSIPPI **6394**
SUMMER FACULTY FELLOWSHIP PROGRAM
03/29/1996 – 03/28/1997 FY97: –$6,647 Total: $244,353
Prin. Invest.: C WYLDMEN
Tech. Officer: SSC/A T JOYCE
CASE Category: 49 – ENGINEERING, OTHER

MISSOURI

NAG 2 888 SAINT LOUIS UNIVERSITY **6395**
EFFECT OF MICROGRAVITY ON OSTEOBLASTIC GENE EXPRES SION
03/22/1994 – 12/31/1995 FY97: –$183 Total: $79,514
Prin. Invest.: N C PARTRIDGE
Tech. Officer: ARC/E M HOLTON
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 4538 SAINT LOUIS UNIVERSITY **6396**
SKELETAL COLLAGEN TURNOVER BY THE OSTEOBLAST
05/06/1997 – 02/28/1998 FY97: $100,450 Total: $100,450
Prin. Invest.: N PARTRIDGE
Tech. Officer: GSFC/T SCOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4549 SAINT LOUIS UNIVERSITY **6397**
SKELETAL COLLAGEN TURNOVER BY THE OSTEOBLAST
07/18/1995 – 09/30/1997 FY97: $0 Total: $199,253
Prin. Invest.: N I PATRIDGE
Tech. Officer: HQ/T K SCOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 2 884 SAINT LOUIS UNIVERSITY **6398**
EFFECT OF MICROGRAVITY ON BONE DEVELOPMENT
02/08/1995 – 12/31/1997 FY97: $0 Total: $206,766
Prin. Invest.: N C PARTRIDGE
Tech. Officer: ARC/D A REISS–BUBENHEIM, ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 3 330 SAINT LOUIS UNIVERSITY **6399**
THIN FILM SOLID LUBRICANT DEVELOPMENT
12/17/1993 – 04/16/1997 FY97: $0 Total: $70,000
Prin. Invest.: P A BENOY
Tech. Officer: LERC/C DELLACORTE
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 51145 SAINT LOUIS UNIVERSITY **6400**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/28/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: N C PARTRIDGE
Tech. Officer: HQ/R WHITE
CASE Category: 56 – MEDICL

NGT 51671 SAINT LOUIS UNIVERSITY **6401**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/08/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: N PATRIDGE
Tech. Officer: HQ/G LESANE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 5 10 SAINT LOUIS UNIVERSITY **6402**
EVALUATION OF MODEL SIMULATED REFLECTIVITY USING RADAR ANALYSIS OF TOGA CONVECTIVE SYSTEMS
06/26/1995 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: R PASKEN
Tech. Officer: GSFC/G A SOFFEN, GSFC/W TAO
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 50047 SAINT LOUIS UNIVERSITY **6403**
CHARACTERIZATION OF AN OSTEOBLASTIC SCAVENGER RECE
07/17/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: N PARTRIDGE
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 993 SOUTHEAST MISSOURI STATE UNIVERSITY **6404**
JOVE
11/26/1993 – 05/31/1998 FY97: $26,500 Total: $154,751
Prin. Invest.: D PROBET, G CWICK, J GONG
Tech. Officer: MSFC/F SIX
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAG 1 1790 UNIVERSITY OF MISSOURI – COLUMBIA **6405**
THERMODYNAMIC AND STRUCTURAL PROPERTIES OF IMIDE MODEL COMPOUNDS FROM EXPERIMENTAND SIMULATION
01/24/1996 – 01/23/1998 FY97: $37,766 Total: $65,010
Prin. Invest.: G D SMITH, R A ORWOLL
Tech. Officer: LARC/J A HINKLEY, LARC/T S GATES
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 2 1032 UNIVERSITY OF MISSOURI – COLUMBIA **6406**
THE ONTOGENY OF AVIAN VESTIBULAR FUNCTION DURING S PACE FLIGHT
03/22/1996 – 08/31/1997 FY97: $0 Total: $59,460
Prin. Invest.: T A JONES
Tech. Officer: ARC/C M WINGET, ARC/G A JAHNS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 3 1477 UNIVERSITY OF MISSOURI – COLUMBIA **6407**
USING CONCURRENT, MULTI–LEVEL SUBSTRUCTURING THECH IQUES TO PERF FIN ELEMENT BASED ANALY OF LG SC MO
04/22/1993 – 09/30/1996 FY97: $0 Total: $94,459
Prin. Invest.: G D GUTE
Tech. Officer: LERC/S S PAI, LERC/D A HOPKINS
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1731 UNIVERSITY OF MISSOURI – COLUMBIA **6408**
TRAJECTORY OPTIMIZATION OF AN INTERSTELLAR MISSION USING SOLAR ELECTRIC PROPULSION
04/10/1995 – 04/09/1997 FY97: $0 Total: $17,890
Prin. Invest.: C KLUEVEN
Tech. Officer: LERC/J M HICKMAN
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 5 2573 UNIVERSITY OF MISSOURI – COLUMBIA **6409**
AUTOMATIC ANALYSIS OF CLOUD WINDS FROM STEREO CLOU D HEIGHTS AND CLOUD MOTIONS USING ROBUST.
04/29/1994 – 07/31/1997 FY97: $0 Total: $271,614
Prin. Invest.: X ZHUANG
Tech. Officer: GSFC/A F HASLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3778 UNIVERSITY OF MISSOURI – COLUMBIA **6410**
ICE SHEET ELEVATION CHANGE STUDIES USING IMPROVED
02/12/1997 – 12/31/1997 FY97: $87,722 Total: $87,722
Prin. Invest.: C A KLUEVER
Tech. Officer: GSFC/R H THOMAS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3900 UNIVERSITY OF MISSOURI – COLUMBIA **6411**
INTERCOMPARISON, VISUALIZATION AND ANALYSIS TESTBE ASSIMILATED DATA SETS AND SATELLITE DATA.
03/03/1997 – 02/28/1998 FY97: $149,567 Total: $149,567
Prin. Invest.: K PALANIAPPAN
Tech. Officer: GSFC/A NEGRI
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4607 UNIVERSITY OF MISSOURI – COLUMBIA **6412**
VESTIBULAR ONTOGENY, ADAPTATION, AND THE EFFECTS O LOADING IN THE RAT
05/19/1997 – 05/14/1998 FY97: $97,713 Total: $97,713
Prin. Invest.: T A JONES
Tech. Officer: GSFC/T SCOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 6283 UNIVERSITY OF MISSOURI – COLUMBIA **6413**
INTELLIGENT VISUALIZATION OF EARTH SCIENCE DATASET STRUCTURES AND DATA COMPRESSION STRATEGIES
09/26/1997 – 07/31/1998 FY97: $170,000 Total: $170,000
Prin. Invest.: X ZHAUNG
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL,OTHER

NAG 9 711 UNIVERSITY OF MISSOURI – COLUMBIA **6414**
JOINT CORRELATION SURGICAL LASER POINTING
07/30/1993 – 10/01/1996 FY97: –$2,285 Total: $15,542
Prin. Invest.: J KNAPP
Tech. Officer: JSC/R JUDAY
CASE Category: 56 – MEDICL

NAG 9 915 UNIVERSITY OF MISSOURI – COLUMBIA **6415**
THERMAL MODELING FOR SPACESUIT DESIGN/CONTROL
11/06/1996 – 09/30/1997 FY97: $97,697 Total: $97,697
Prin. Invest.: S NAIR
Tech. Officer: JSC/C LIU
CASE Category: 42 – ASTRONAUTICAL ENGR

NAGW 3302 UNIVERSITY OF MISSOURI – COLUMBIA **6416**
STRESSES AND STRAINS WITHIN THE STABLE NORTH AMERI CAN PLATE
01/06/1993 – 06/30/1996 FY97: –$444 Total: $94,967
Prin. Invest.: J F ENGEH
Tech. Officer: HQ/M BALTUCK
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3910 UNIVERSITY OF MISSOURI – COLUMBIA **6417**
NAGW-3910/B UNIV. OF MISSOURI COLUMBIA 12–MONTH AWARD
03/28/1994 – 09/15/1996 FY97: $0 Total: $135,006
Prin. Invest.: T JONES
Tech. Officer: HQ/T W HALSTEAD
CASE Category: 61 – PSYCHOLOGY BIOLOGY

NAGW 4698 UNIVERSITY OF MISSOURI – COLUMBIA **6418**
INTELLIGENT VISUALIZATION FOR EARTH SCIENCE DATASE TS USING NOVEL DATA STRUCTURES AND DATA COMPRESSI
09/05/1995 – 09/30/1997 FY97: $160,000 Total: $315,000
Prin. Invest.: X ZHAUNG
Tech. Officer: HQ/G ASRAR
CASE Category: 29 – MATH/COMPUTERSCI, OTHER

NAGW 4991 UNIVERSITY OF MISSOURI – COLUMBIA **6419**
BAROREFLEX FUNCTION IN RATS AFTER SIMULATED MICROG RAVITY
03/13/1996 – 03/31/1997 FY97: $0 Total: $170,333
Prin. Invest.: E M HASSER, PH.D., NONE
Tech. Officer: HQ/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 5010 UNIVERSITY OF MISSOURI – COLUMBIA **6420**
LONG TERM ELEVATION CHANGE
03/21/1996 – 12/31/1996 FY97: $0 Total: $120,298
Prin. Invest.: C DAVIS
Tech. Officer: HQ/R H THOMAS, HQ/R HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG10 224 UNIVERSITY OF MISSOURI – COLUMBIA **6421**
MICROGRAVITY EFFECTS DURING FERTILIZATION CELL DIVISION
09/16/1997 – 03/15/1998 FY97: $49,048 Total: $49,048
Prin. Invest.: H SCHAFFR
Tech. Officer: KSC/W KNOTT
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 2 823 UNIVERSITY OF MISSOURI – COLUMBIA **6422**
CONTROL & HEAT REJECTION ISSUES FOR PORTABLE LIFE SUPPORT SYSTEMS
08/23/1993 – 09/30/1997 FY97: $0 Total: $149,952
Prin. Invest.: S S NAIR, J B MILES
Tech. Officer: ARC/B W WEBBON, ARC/R N BRETOI
CASE Category: 49 – ENGINEERING, OTHER

NCC 2 903 UNIVERSITY OF MISSOURI – COLUMBIA **6423**
COMPUTER MODELING OF LITHIUM/POLYMER ELECTROLYTES
05/24/1995 – 04/30/1997 FY97: $0 Total: $76,984
Prin. Invest.: G D SMITH
Tech. Officer: ARC/S R LANGHOFF
CASE Category: 12 – CHEMISTRY

NAG 1 1189 UNIVERSITY OF MISSOURI – ROLLA **6424**
ANALYTICAL AND COMPUTATIONAL INVESTIGATION OF SUPERSONIC COMBUSTOR FLOW FIELDS
09/26/1990 – 09/24/1997 FY97: $102,449 Total: $528,308
Prin. Invest.: D W RIGGINS
Tech. Officer: LARC/C R MCCLINTON, LARC/S H STACK
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1632 UNIVERSITY OF MISSOURI – ROLLA **6425**
PARTICULATE CHARACTERIZATION OF COMMERCIAL JET ENGINE EMISSIONS AT CRUISE
07/06/1994 – 07/05/1997 FY97: $56,000 Total: $407,402
Prin. Invest.: D E HAGEN
Tech. Officer: LARC/W R COFER, LARC/W L GROSE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1728 UNIVERSITY OF MISSOURI – ROLLA **6426**
HYPERSONIC VEHICLE TRAJECTORY OPTIMIZATION AND CONTROL
05/23/1995 – 11/30/1996 FY97: $0 Total: $30,895
Prin. Invest.: S N BALKRISHNAN
Tech. Officer: LARC/J R PEGG
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 1099 UNIVERSITY OF MISSOURI – ROLLA **6427**
AEROSOL MEASUREMNTS FOR PROJECT SONEX USING THE UM R MASS
01/09/1997 – 12/31/1997 FY97: $93,981 Total: $93,981
Prin. Invest.: D E HAGEN, P D WHITEFIELD
Tech. Officer: ARC/E P CONDON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 3 1678 UNIVERSITY OF MISSOURI – ROLLA **6428**
DEVELOPMENT OF THE TURBOFAN ACCOUSTIC RADIATION CO DE: VALIDATION OF THE AFT RADIATING CODE IMPROVEM
12/06/1994 – 06/30/1997 FY97: $0 Total: $144,582
Prin. Invest.: W EVERSON
Tech. Officer: LERC/D L HUFF
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 3 343 UNIVERSITY OF MISSOURI – ROLLA **6429**
PARTICULATE EMISSINS CHARACTERIZATIONFOR HSCT RELA TED TESTSON: FLAME TUBE, ANNULARSECTOR COMBUSTOR
04/25/1994 – 08/14/1998 FY97: $160,000 Total: $678,000
Prin. Invest.: P WHITFIELD, D HAGEN, H LILLENFELD
Tech. Officer: LERC/R W NIEDZWIECKI, LERC/K P KUNDU
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NGT 40057 UNIVERSITY OF MISSOURI – ROLLA **6430**
NATL SPACE GRANT
04/24/1996 – 09/30/1997 FY97: $0 Total: $171,000
Prin. Invest.: B P SELBERG
Tech. Officer: HQ/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51338 UNIVERSITY OF MISSOURI – ROLLA **6431**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/21/1994 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: D RIGGINS
Tech. Officer: LARC/C MCCLINTON
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 1 52150 UNIVERSITY OF MISSOURI – ROLLA **6432**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) TRANSFERRED FROM NASA HQ – NGT–51338
07/30/1996 – 06/30/1997 FY97: $1 Total: $22,001
Prin. Invest.: D PIGGIUS
Tech. Officer: LARC/R A HATHAWAY
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 40060 UNIVERSITY OF MISSOURI – ROLLA **6433**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
03/04/1997 – 02/28/1998 FY97: $170,000 Total: $170,000
Prin. Invest.: B P SELBERG
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

MAG 5 6091 UNIVERSITY OF MISSOURI – SAINT LOUIS **6434**
METHANE ABSORPTION SPECTOSCOPY IN THE 700–1000NM R SURE DEPENDENCES & DETERMINATIONS OF THE INTER–BA
08/26/1997 – 06/14/1998 FY97: $0 Total: $0
Prin. Invest.: D J O'BRIEN
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1656 UNIVERSITY OF MISSOURI – SAINT LOUIS **6435**
COMPUTER–AIDED POLYMER DESIGN FOR NASA'S HIGH– SPEED CIVILIAN TRANSPORT
11/18/1994 – 01/31/1998 FY97: $41,877 Total: $150,375
Prin. Invest.: W J WELSH
Tech. Officer: LARC/J A HINKLEY, LARC/T S GATES
CASE Category: 12 – CHEMISTRY

NAG 5 6091 UNIVERSITY OF MISSOURI – SAINT LOUIS **6436**
METHANE ABSORPTION SPECTOSCOPY IN THE 700–1000NM R SURE DEPENDENCES & DETERMINATIONS OF THE INTER–BA
08/26/1997 – 06/14/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: D O'BRIEN
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 9 847 UNIVERSITY OF MISSOURI – SAINT LOUIS **6437**
INTEGRATION OF GENETIC PROGRAMMING PROBLEM CONSTRA INT
09/18/1995 – 07/31/1996 FY97: $0 Total: $17,000
Prin. Invest.: C Z JANIKOW
Tech. Officer: JSC/D G SICKOREZ
CASE Category: 22 – COMPUTER SCIENCE

NAGW 2474 UNIVERSITY OF MISSOURI – SAINT LOUIS **6438**
METHANE ABSORPTION SPECTROSCOPY
05/23/1991 – 11/30/1996 FY97: $0 Total: $242,848
Prin. Invest.: J J O'BRIEN
Tech. Officer: HQ/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAGW 5243 UNIVERSITY OF MISSOURI–KANSAS CITY **6439**
RESEARCH ENTITLED LONG TERM ELEVATION CHANGE OF THE GREEN-LAND ICE SHEETS FROM STELLAR RADAR
11/21/1996 – 12/31/1997 FY97: $166,110 Total: $166,110
Prin. Invest.: C H DAVIS
Tech. Officer: HQ/G ASRAR, HQ/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 3 52303 UNIVERSITY OF MISSOURI–KANSAS CITY **6440**
GRADUATE STUDENT RESEARCH PROGRAM – HPCC
07/20/1995 – 07/31/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: G D GUTE
Tech. Officer: LERC/L SHAW
CASE Category: 46 – MECHANICAL ENGR

NAG 1 1848 WASHINGTON UNIVERSITY **6441**
ULTRASONIC NONDESTRUCTIVE EVALUATION TECHNIQUES APPLIED TO THE QUANTITATIVE CHARACTERIZATIONOF
06/12/1996 – 06/11/1998 FY97: $25,000 Total: $75,000
Prin. Invest.: J G MILLER
Tech. Officer: LARC/W P WINFREE, LARC/P H JOHNSTON
CASE Category: 13 – PHYSICS

NAG 2 865 WASHINGTON UNIVERSITY **6442**
INFLUENCE OF HIGH PRESSURE HYDROGEN ENVIRONMENT ON CREEP DEFORMATION OF MO–RE, HAYNES 188, &
08/10/1993 – 08/31/1996 FY97: -$26 Total: $162,615
Prin. Invest.: S M SASTRY
Tech. Officer: ARC/H G NELSON
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 2 945 WASHINGTON UNIVERSITY **6443**
CHRONIC RECORDING OF OTOLITH NERVES IN MICROGRAVIT Y
12/16/1994 – 11/30/1997 FY97: $173,271 Total: $410,774
Prin. Invest.: S M HIGHSTEIN
Tech. Officer: ARC/W E HINDS, ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 3 1910 WASHINGTON UNIVERSITY **6444**
GAS – PHASE COMBUSTION SYNTHESIS OF METAL AND ERAM IC NANO–PARTICLES
06/24/1996 – 06/24/2000 FY97: $65,514 Total: $124,053
Prin. Invest.: R L AXELBAUM, B H CHAO
Tech. Officer: LERC/S A GOKOGLE
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 2862 WASHINGTON UNIVERSITY **6445**
HYDRODYNAMICS OF GAMMA–RAY BURSTS
01/18/1995 – 01/31/1997 FY97: $0 Total: $22,000
Prin. Invest.: J I KATZ
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2982 WASHINGTON UNIVERSITY **6446**
CHANGES ASSOCIATED WITH LEVEE BREAK LANDFORMS AND DEPOSITS FROM THE 1993 MISSOURI RIVER FLOOD
06/28/1995 – 07/31/1997 FY97: $117,240 Total: $213,240
Prin. Invest.: R E ARVIDSON
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3657 WASHINGTON UNIVERSITY **6447**
STRUCTURE AND EVOLUTION OF OUTER PLANET SATELLITES
03/19/1997 – 10/31/1997 FY97: $29,600 Total: $29,600
Prin. Invest.: W B MCKINNON
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3870 WASHINGTON UNIVERSITY **6448**
SURFACE PROCESSES ON VENUS AND MARS
02/11/1997 – 09/30/1997 FY97: $170,000 Total: $170,000
Prin. Invest.: R E ARVIDSON
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4002 WASHINGTON UNIVERSITY **6449**
COUPLED AQUEOUS ALTERATION OF MINERALS AND ORGANIC METEORITE PARENT BODIES AND ICY SATELLITES
03/04/1997 – 12/31/1997 FY97: $90,000 Total: $90,000
Prin. Invest.: D L SHOCK
Tech. Officer: GSFC/M A MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 4098 WASHINGTON UNIVERSITY **6450**
ISOTOPIC STRUCTURES AND FINE-SCALE CHRONOLOGY IN P
06/23/1997 – 03/31/1998 FY97: $107,000 Total: $107,000
Prin. Invest.: D A PODOSEK
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4172 WASHINGTON UNIVERSITY **6451**
ANALYTICAL, EXPERIMENTAL, AND MODELING STUDIES OF IGNEOUS ROCKS
04/09/1997 – 11/30/1997 FY97: $240,000 Total: $240,000
Prin. Invest.: D A HASKIN
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 – CHEMISTRY

NAG 5 4173 WASHINGTON UNIVERSITY **6452**
LUNAR AND PLANETARY SURFACE DYNAMICS AND EARLY HIS
06/02/1997 – 12/14/1997 FY97: $215,000 Total: $215,000
Prin. Invest.: D HOHENBERG
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 – CHEMISTRY

NAG 5 4281 WASHINGTON UNIVERSITY **6453**
PRESOLAR GRAINS
04/10/1997 – 08/31/1997 FY97: $15,000 Total: $15,000
Prin. Invest.: P K ZINNER
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4323 WASHINGTON UNIVERSITY **6454**
KINETICS OF THERMOCHEMICAL GAS-SOLID REACTIONS IMP RETENTION IN THE SOLAR NEBULA: IMPLICATIONS FOR
04/09/1997 – 01/31/1998 FY97: $57,814 Total: $57,814
Prin. Invest.: D FEGLEY
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4324 WASHINGTON UNIVERSITY **6455**
LYMAN ALPHA PHOTOCHEMISTRY IN THE SOLAR NEBULA
04/04/1997 – 02/28/1998 FY97: $11,088 Total: $11,088
Prin. Invest.: D FEGLEY
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4325 WASHINGTON UNIVERSITY **6456**
DYNAMICAL INVESTIGATION OF PLANETARY SATELLITE CAP
04/09/1997 – 12/31/1997 FY97: $29,235 Total: $29,235
Prin. Invest.: D B MCKINNON
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4435 WASHINGTON UNIVERSITY **6457**
PARTICIPATION IN THE DATA ANALYSIS AND SCIENCE ACT ORBITING LASER ALTIMETER (MOLA) & THE MARS GLOBAL
04/28/1997 – 12/31/1997 FY97: $80,000 Total: $80,000
Prin. Invest.: R J PHILLIPS*Prin. Invest.:* NONE
Tech. Officer: GSFC/D E SMITH
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 4448 WASHINGTON UNIVERSITY **6458**
PLANETARY INTERIOR MODELLING AND TECTONIC IMPLICAT
05/08/1997 – 12/31/1997 FY97: $104,000 Total: $104,000
Prin. Invest.: D J PHILLIPS
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4493 WASHINGTON UNIVERSITY **6459**
SOLID STATE AND MASS SPECTROMETRIC MEASUREMENTS OF MATERIALS
05/13/1997 – 02/28/1998 FY97: $860,000 Total: $860,000
Prin. Invest.: D M WALKER
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 – CHEMISTRY

NAG 5 4564 WASHINGTON UNIVERSITY **6460**
KINETICS OF THERMOCHEMICAL REACTIONS IMPORTANT IN SULFUR CYCLE
05/29/1997 – 12/31/1997 FY97: $82,681 Total: $82,681
Prin. Invest.: D FEGLEY
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4565 WASHINGTON UNIVERSITY **6461**
CHEMICAL WEATHERING KINETICS OF BASALT ON VENUS
05/30/1997 – 02/14/1998 FY97: $55,164 Total: $55,164
Prin. Invest.: D FEGLEY
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4642 WASHINGTON UNIVERSITY **6462**
RAMAN SPECTROMETER FOR SURFACE IDENTIFICATION OF M COMPOUNDS ON SILICATE PLANETS AND SMALL SOLAR-SYS
06/06/1997 – 06/30/1998 FY97: $108,558 Total: $108,558
Prin. Invest.: D A HASKIN*Prin. Invest.:* NONE
Tech. Officer: GSFC/B CAMPBELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 4820 WASHINGTON UNIVERSITY **6463**
STUDIES OF INTERSTELLAR GRAINS AND SOLAR NEBULA ST
06/17/1997 – 05/31/1998 FY97: $75,000 Total: $75,000
Prin. Invest.: D A POSODEK
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 5078 WASHINGTON UNIVERSITY **6464**
BASIC RESEARCH ON THE COMPOSITION OF HEAVY COSMIC RAYS: TIGER
05/03/1996 – 10/31/1997 FY97: $300,000 Total: $468,000
Prin. Invest.: R W BINNS
Tech. Officer: GSFC/H C NEDDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5110 WASHINGTON UNIVERSITY **6465**
DEVELOPMENT OF SIFTER WITH SIMULTANEOUS TRACKING AND CALORIMETRY
02/12/1997 – 11/30/1997 FY97: $156,000 Total: $156,000
Prin. Invest.: R BINNS
Tech. Officer: GSFC/H NEEDLEMAN
CASE Category: 13 – PHYSICS

NAG 5 5114 WASHINGTON UNIVERSITY **6466**
A BALLOON-BORNE HARD X-RAY IMAGING SPECTROMETER BASED ON CDZNTE TECHNOLOGY
04/09/1997 – 03/31/1998 FY97: $60,000 Total: $60,000
Prin. Invest.: P L HINK, NONE
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 6125 WASHINGTON UNIVERSITY **6467**
ACOUSTIC COMPOSITION EXPERIMENT FOR DETERMINING H2 RATIO IN THE ATMOSPHERES OF THE JOVIAN PLANETS
08/04/1997 – 07/14/1998 FY97: $185,507 Total: $185,507
Prin. Invest.: D FEGLEY
Tech. Officer: GSFC/B CAMPBELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 6291 WASHINGTON UNIVERSITY **6468**
DEVELOPMENT OF A "NANOSIMS" ION MICROPROBE SUITABL LYSIS OF RETURNED SAMPLES FROM THE "STARDUST" MIS
09/10/1997 – 08/31/1998 FY97: $111,791 Total: $111,791
Prin. Invest.: D WALKER
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 6366 WASHINGTON UNIVERSITY **6469**
CHEMICAL MODELS OF THE PRESENT AND PRIMORDIAL ATMO GIANT PLANETS JUPITER, SATURN, URANUS ANDNEPTUNE
09/22/1997 – 06/30/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: D FEGLEY
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 1241 WASHINGTON UNIVERSITY **6470**
RESEARCH MICROGRAVITY CRYSTALLIZATION OF HUMAN AN- TITHROMBIN TO IMPROVE STRUCTURAL RESOLUTION/QUAL.
12/09/1996 – 12/08/1997 FY97: $27,300 Total: $27,300
Prin. Invest.: M R WARDELL
Tech. Officer: MSFC/T Y MILLER, MSFC/D C CARTER
CASE Category: 12 – CHEMISTRY

NAG 9 653 WASHINGTON UNIVERSITY **6471**
CULTURE OF PORCINE ISLET TISSUE/EVALUATION OF MICR OGRAVITATIONAL CONDITIONS
10/28/1992 – 08/16/1996 FY97: -$121,692 Total: $368,308
Prin. Invest.: D W SCHARP
Tech. Officer: GSFC/G SPAULDING
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 432 WASHINGTON UNIVERSITY **6472**
STRUCTURE AND EVOLUTION OF OUTER PLANET SATELLITE
03/01/1983 – 10/31/1996 FY97: $0 Total: $487,686
Prin. Invest.: W B MCKINNON
Tech. Officer: HQ/J UNDERWOOD, HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1358 WASHINGTON UNIVERSITY **6473**
TOWARD GLOBAL PERSPECTIVES ON CONTINENTAL TECTONICS
08/01/1988 – 06/30/1997 FY97: $0 Total: $1,500,113
Prin. Invest.: R E ARVIDSON
Tech. Officer: HQ/M BALTUCK
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1872 WASHINGTON UNIVERSITY **6474**
ANALYSIS OF REMOTE SENSING DATA FOR THE SURFACES O F THE TERRESTRIAL PLANETS
07/16/1990 – 06/30/1997 FY97: $0 Total: $1,176,736
Prin. Invest.: R E ARVIDSON
Tech. Officer: HQ/T A MAXWELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2304 WASHINGTON UNIVERSITY **6475**
STUDIES OF SOLAR NEBULA STRUCTURE AND EVOLUTION
02/26/1991 – 10/31/1997 FY97: $0 Total: $461,200
Prin. Invest.: F A PODOSEK
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 2818 WASHINGTON UNIVERSITY **6476**
AQUEOUS ALTERATIONS OF ORGANIC MATTER ON METEORITE PARENT BODIES
01/03/1992 – 06/30/1997 FY97: $0 Total: $233,451
Prin. Invest.: E L SHOCK
Tech. Officer: HQ/M MEYER
CASE Category: 12 – CHEMISTRY

NAGW 2861 WASHINGTON UNIVERSITY **6477**
CHEMICAL MODELS OF THE PRESENT AND PRIMORDIAL ATMO SPHERES OF THE GAS GIANT PLANETS
01/31/1992 – 06/30/1997 FY97: $0 Total: $269,019
Prin. Invest.: B T FEGLEY
Tech. Officer: HQ/W L QUAIDE
CASE Category: 11 – ASTRONOMY

NAGW 2867 WASHINGTON UNIVERSITY **6478**
KINETICS OF THERMALCHEMICAL REACTIONS IMPORTANT IN THE VENUS ATMOSPHERIC SULFUR CYCLE
01/31/1992 – 06/30/1997 FY97: $7,750 Total: $344,858
Prin. Invest.: B T FEGLEY
Tech. Officer: HQ/W L QUAIDE
CASE Category: 11 – ASTRONOMY

NAGW 2918 WASHINGTON UNIVERSITY **6479**
ANGULAR MONENTUM TRANSFER IN CATACLYSMIC VARIABLES
02/27/1992 – 12/31/1995 FY97: –$244 Total: $80,756
Prin. Invest.: J I KATZ
Tech. Officer: HQ/R STACHNIK, HQ/E J WEILER
CASE Category: 13 – PHYSICS

NAGW 3013 WASHINGTON UNIVERSITY **6480**
DETECTION AND INTERACTIONS OF ULTRA HEAVY NUCLEI
04/03/1992 – 02/28/1996 FY97: $0 Total: $165,990
Prin. Invest.: J KLARMANN
Tech. Officer: HQ/W V JONES, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 3024 WASHINGTON UNIVERSITY **6481**
PLANETARY INTERIOR MODELING AND TECTONIC IMPLICATI ONS
04/03/1992 – 06/30/1997 FY97: $0 Total: $500,500
Prin. Invest.: R J PHILLIPS
Tech. Officer: HQ/R WILLIAMS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3046 WASHINGTON UNIVERSITY **6482**
COMPARATIVE EFFECTIVENESS OF A SERIES OF AUXINS IN MODULATING THE PUTATIVE GRAVITROPIC
04/03/1992 – 09/30/1996 FY97: $0 Total: $205,000
Prin. Invest.: B G PICKARD
Tech. Officer: HQ/T W HALSTEAD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 3070 WASHINGTON UNIVERSITY **6483**
KINETICS OF THERMOCHEMICAL GAS–SOLID REACTIONS IMP ORTANT FOR VOLATILE RETENTION IN SOLAR NEBULA
05/06/1992 – 06/30/1997 FY97: $0 Total: $247,000
Prin. Invest.: M B FEGLEY
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3343 WASHINGTON UNIVERSITY **6484**
ANALYTICAL EXPERIMENTAL AND MODELING STUDIES OF LU NAR AND TERRESTRIAL IGNEOUS ROCKS
01/15/1993 – 06/30/1997 FY97: $0 Total: $1,053,950
Prin. Invest.: L A HASKIN
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3344 WASHINGTON UNIVERSITY **6485**
NAGW–3344/WASHINGTON UNIV @ ST LOUIS/LUNAR AND PLANETARY SURFACE DYNAMICS AND EARLY HISTORY
01/28/1993 – 09/30/1997 FY97: $0 Total: $958,176
Prin. Invest.: C M HOHENBERG
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3371 WASHINGTON UNIVERSITY **6486**
SOLID STATE AND MASS SPECTROMETRIC MEASUREMENTS OF EXTRATERRESTRIAL MATERIALS
02/10/1993 – 09/30/1997 FY97: $0 Total: $3,135,000
Prin. Invest.: R M WALKER
Tech. Officer: HQ/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3424 WASHINGTON UNIVERSITY **6487**
BASIC RESEARCH ON PRIMARY COSMIC RADIATION
03/19/1993 – 10/31/1996 FY97: $0 Total: $882,000
Prin. Invest.: D BINNS
Tech. Officer: HQ/W V JONES, HQ/G L WITHBROE
CASE Category: 13 – PHYSICS

NAGW 3634 WASHINGTON UNIVERSITY **6488**
ISOTOPIC STRUCTURE AND FINE–SCALE CHRONOLOGY IN PL ANETARY MATERIALS
06/17/1993 – 03/31/1998 FY97: $0 Total: $364,339
Prin. Invest.: F PODESEK
Tech. Officer: HQ/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3874 WASHINGTON UNIVERSITY **6489**
NAGW–3874/B WASH. UNIV. " THEORETICAL FOUND. OF GR AV. PHYSICS EXPERIMENTS IN SPACE"
02/25/1994 – 09/30/1997 FY97: $0 Total: $212,928
Prin. Invest.: C M WILL
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 4261 WASHINGTON UNIVERSITY **6490**
THE DEVELOPMENT OF A HIGH RESOLUTION POSITION SENS ITIVE DETECTOR
01/13/1995 – 06/30/1997 FY97: $0 Total: $105,000
Prin. Invest.: P HINK
Tech. Officer: HQ/L K KALUZIENSKI
CASE Category: 11 – ASTRONOMY

NAGW 4485 WASHINGTON UNIVERSITY **6491**
CHEMICAL WEATHERING KINETICS OF BASALT ON VENUS
05/12/1995 – 06/30/1997 FY97: $0 Total: $102,479
Prin. Invest.: B FEGLEY
Tech. Officer: HQ/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAGW 4521 WASHINGTON UNIVERSITY **6492**
LYMAN APLHA PHOTOCHEMISTRY IN THE SOLAR NEBULA
05/26/1995 – 06/30/1997 FY97: $0 Total: $20,529
Prin. Invest.: B FEGLEY, JR.
Tech. Officer: HQ/P G ROGERS
CASE Category: 12 – CHEMISTRY

NAGW 4679 WASHINGTON UNIVERSITY **6493**
GEOSCIENCE DISCIPLINE NODES
08/18/1995 – 12/31/1996 FY97: $0 Total: $187,500
Prin. Invest.: R E ARVIDSON
Tech. Officer: HQ/J BERGSTRALH
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4795 WASHINGTON UNIVERSITY **6494**
CHEMICAL CONSEQUENCES OF THE IMPACT OF COMET SHOEM AKER–LEVY 9 ON THE JOVIAN ATMOSPHERE
09/25/1995 – 07/31/1996 FY97: –$1 Total: $10,899
Prin. Invest.: B FOGLEY
Tech. Officer: HQ/E BARKER
CASE Category: 43 – CHEMICAL ENGR

NAGW 4881 WASHINGTON UNIVERSITY **6495**
LUNAR CRUSTAL STRUCTURE
12/11/1995 – 12/31/1997 FY97: $0 Total: $105,000
Prin. Invest.: R J PHILLIPS
Tech. Officer: HQ/J M BOYCE, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 4906 WASHINGTON UNIVERSITY **6496**
GEOLOGY OF LUNAR LANDING SITES AND ORIGIN OF BASIN EJECTA FROM A CLEMENTINE PERSPECTIVE
01/29/1996 – 12/31/1997 FY97: $0 Total: $99,000
Prin. Invest.: L A HASKIN
Tech. Officer: HQ/J M BOYCE, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 5012 WASHINGTON UNIVERSITY **6497**
DYNAMICAL INVESTIGATION OF PLANETARY SATELLITE CAP TURE
03/27/1996 – 06/30/1997 FY97: $0 Total: $28,662
Prin. Invest.: W B MCKINNON
Tech. Officer: HQ/P ROGERS, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 5207 WASHINGTON UNIVERSITY **6498**
RAMAN SPECTROMETER FOR SURFACE IDENTIFICATION OF MINERALS & ORGANIC COMPOUNDS ON SILICATE PLANETS
10/04/1996 – 06/30/1997 FY97: $58,367 Total: $58,367
Prin. Invest.: L A HASKIN
Tech. Officer: HQ/T KOSTIUK, HQ/H C BRINTON
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 2 5159 WASHINGTON UNIVERSITY **6499**
REMOTE SENSING OF AIRCRAFT CONTRAILS USING A FIELD ORTABLE DIGITAL ARRAY SCANNED INTERFEROMETER
09/11/1995 – 12/31/1997 FY97: $6,000 Total: $22,000
Prin. Invest.: W H SMITH
Tech. Officer: ARC/P D HAMMER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 8 49 WASHINGTON UNIVERSITY **6500**
COMPOSITIONAL DEPENDENCE OF PHASE FORMATION AND STABILITY
06/20/1994 – 12/20/1996 FY97: –$1,494 Total: $92,544
Prin. Invest.: K F KELTON
Tech. Officer: MSFC/E C ETHRIDGE, MSFC/M ROBINSON
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 8 85 WASHINGTON UNIVERSITY **6501**
COMPOSITION EFFECTS ON PHASE FORMATION & STABILITY
04/22/1996 – 04/21/1998 FY97: $64,900 Total: $179,900
Prin. Invest.: K F KELTON
Tech. Officer: MSFC/D R WOODARD, MSFC/R W ALLEN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NGT 40029 WASHINGTON UNIVERSITY **6502**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
06/05/1991 – 02/28/1997 FY97: $0 Total: $830,000
Prin. Invest.: R E ARVIDSON
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51298 WASHINGTON UNIVERSITY **6503**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/28/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: R M WALKER
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51319 WASHINGTON UNIVERSITY **6504**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/07/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: J KLARMANN
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 3 52313 WASHINGTON UNIVERSITY **6505**
LOW–TEMPERATURE DEPOSITION OF THIN FLIM PHOTOVOLTA IC MATERI-ALS BY SPRAY CVD & CHEMICAL BATHEPTIAXY
06/20/1996 – 06/30/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: W BUHRO
Tech. Officer: LERC/F MONTEGANI
CASE Category: 43 – CHEMICAL ENGR

NGT 5 50023 WASHINGTON UNIVERSITY **6506**
TIGER: A COSMIC RAY DETECTOR USED TO STUDY THE ABU ELEMENTS
08/04/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: SPOSATO
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 50030 WASHINGTON UNIVERSITY **6507**
COMPOSITIONAL EFFECTS ON TIME DEPENDENT NUCLEATION
08/04/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: K KELTON/CROAT
Tech. Officer: GSFC/A NURRIDDI
CASE Category: 11 – ASTRONOMY

NGT 5 50063 WASHINGTON UNIVERSITY **6508**
TECTONIC PROCESSES ON ICY SATELLITES
08/15/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: W B MCKINNON/DOMBAR
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 41 – AERONAUTICAL ENGNR

MONTANA

NGT 9 14 CARROLL COLLEGE **6509**
ADD FUNDING
09/24/1996 – 09/30/1997 FY97: $0 Total: $11,000
Prin. Invest.: T J MULLEN
Tech. Officer: JSC/E PRITCHARD
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 5 4148 FORT BELKNAP COLLEGE **6510**
PRESERVING THE PAST AND THE FUTURE (PACE/MSET)
03/24/1997 – 09/30/1997 FY97: $100,000 Total: $100,000
Prin. Invest.: M TAYLOR
Tech. Officer: GSFC/M STOUTSENBERGER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 2 1018 MONTANA STATE UNIVERSITY **6511**
BACTERIAL GROWTH ON SURFACES IN MICROGRAVITY & ON EARTH
10/25/1995 – 06/30/1997 FY97: $0 Total: $152,250
Prin. Invest.: B H PYLE, G A MCFETERS
Tech. Officer: ARC/C M WINGET, ARC/G C JAHNS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 3159 MONTANA STATE UNIVERSITY **6512**
THERMAL EVOLUTION AND RELATED PROBLEMS OF NEUTRON STRATS
01/24/1996 – 02/14/1998 FY97: $0 Total: $56,000
Prin. Invest.: S TSURUTA
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3652 MONTANA STATE UNIVERSITY **6513**
MOLECULAR AND GEOCHEMICAL ANALYSIS OF HOT SPRING C ROFLEXUS MATS AS STROMATOLITE ANALOGS
03/25/1997 – 10/31/1997 FY97: $124,001 Total: $124,001
Prin. Invest.: M G WARD
Tech. Officer: GSFC/M MEYER
CASE Category: 12 – CHEMISTRY

NAG 5 3688 MONTANA STATE UNIVERSITY **6514**
X-RAY AND SPIN VARIABILITY IN NEUTRON STARS AND NE
01/15/1997 – 01/14/1998 FY97: $29,416 Total: $29,416
Prin. Invest.: S K LINK
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3750 MONTANA STATE UNIVERSITY **6515**
RAPID BACTERIAL TESTING FOR SPACECRAFT WATER
03/10/1997 – 03/14/1998 FY97: $98,486 Total: $98,486
Prin. Invest.: G A MCFETERS
Tech. Officer: GSFC/G FOGLEMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 4576 MONTANA STATE UNIVERSITY **6516**
CENTER FOR EDUCATIONAL RESOURCES
05/13/1997 – 05/31/1999 FY97: $999,975 Total: $999,975
Prin. Invest.: G TUTHILL
Tech. Officer: GSFC/M V PHELPS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 6005 MONTANA STATE UNIVERSITY **6517**
CAUSES AND CONSEQUENCES OF LAND-COVER IN A GREATER ASSESSMENT, MONITORING AND OUTREACH
09/11/1997 – 12/14/1998 FY97: $307,500 Total: $307,500
Prin. Invest.: A HASEN
Tech. Officer: GSFC/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6110 MONTANA STATE UNIVERSITY **6518**
MAGNETIC HELICITY AND THE SOLAR DYNAMO
07/28/1997 – 07/31/1998 FY97: $177,213 Total: $177,213
Prin. Invest.: D CANFIELD
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 – ASTRONOMY

NAG 8 1399 MONTANA STATE UNIVERSITY **6519**
LARGE SCALE ORGANIZATION OF ACTIVE REGION MAGNETIC FIELDS
08/11/1997 – 08/10/2000 FY97: $58,607 Total: $58,607
Prin. Invest.: R C CANFIELD
Tech. Officer: MSFC/M J HAGYARD, MSFC/G A GARY
CASE Category: 11 – ASTRONOMY

NAGW 4866 MONTANA STATE UNIVERSITY **6520**
RESEARCH IN GRAVITATIONAL ASTROPHYSICS
11/22/1995 – 12/31/1998 FY97: $0 Total: $24,464
Prin. Invest.: L A LINDBLOM
Tech. Officer: HQ/L TAFF, HQ/D W WEEDMAN
CASE Category: 13 – PHYSICS

NAGW 5001 MONTANA STATE UNIVERSITY **6521**
RAPID BACTERIAL TESTING FOR SPACECRAFT WATERS
03/22/1996 – 05/31/1997 FY97: $0 Total: $94,923
Prin. Invest.: G A MCFETERS, PH.D.
Tech. Officer: HQ/G FOHLEMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 5072 MONTANA STATE UNIVERSITY **6522**
MAGNETIC HELICITY AND THE SOLAR DYNAMO
05/21/1996 – 07/31/1997 FY97: $0 Total: $171,740
Prin. Invest.: R C CANFIELD
Tech. Officer: HQ/W J WAGNER, HQ/G L WITHBROE
CASE Category: 11 – ASTRONOMY

NCC 2 5177 MONTANA STATE UNIVERSITY **6523**
EVALUATION OF BIOFILM RESISTANCE OF NASA PLASMA-DE OPSITED POLYMERIC COATINGS
04/15/1996 – 05/31/1997 FY97: $0 Total: $40,000
Prin. Invest.: J D BRYERS
Tech. Officer: ARC/M A GOLUB
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 5 240 MONTANA STATE UNIVERSITY **6524**
MONTANA EPSCOR PROGRAM
09/12/1997 – 02/28/1998 FY97: $500,000 Total: $500,000
Prin. Invest.: W HASCOCK
Tech. Officer: GSFC/J DASCH
CASE Category: 11 – ASTRONOMY

NGT 40041 MONTANA STATE UNIVERSITY **6525**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
06/03/1991 – 09/30/1997 FY97: $0 Total: $1,004,500
Prin. Invest.: W A HISCOCK
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51667 MONTANA STATE UNIVERSITY **6526**
GRAD STUD RES PROG
08/20/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: H SCHMIDT
Tech. Officer: HQ/G LESANE
CASE Category: 13 – PHYSICS

NGT 2 52202 MONTANA STATE UNIVERSITY **6527**
THE EFFECTS OF SURFACE HEATING ON BOUNDARY LAYER S TABILITY IN A 2–D SUPERSONIC WIND–TUNNEL
09/21/1995 – 07/31/1998 FY97: $29,719 Total: $73,719
Prin. Invest.: A DEMETRIADES, T P BROGAN
Tech. Officer: ARC/J A LAUB, ARC/L S KING
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 24 MONTANA STATE UNIVERSITY **6528**
HIGH POWER LASER DIODE TRANSMITTER TO MEASURE WATE R VAPOR AND HIGH TEMPERATURE OF THE ATMOSPHERE...
07/15/1996 – 07/31/1997 FY97: $22,000 Total: $44,000
Prin. Invest.: J CARLSTEN
Tech. Officer: GSFC/G A SOFFEN, GSFC/J ABSHIRE
CASE Category: 13 – PHYSICS

NGT 5 26 MONTANA STATE UNIVERSITY **6529**
THEORETICAL AND OBSERVATIONAL INVESTIGATION OF X–R AY EMIS-SION FROM SEYFERT 1 NUCLEI
07/15/1996 – 07/31/1997 FY97: $0 Total: $22,000
Prin. Invest.: S TSURUTA
Tech. Officer: GSFC/G A SOFFEN, GSFC/R MUSHOTZKY
CASE Category: 11 – ASTRONOMY

NGT 5 40036 MONTANA STATE UNIVERSITY **6530**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
01/31/1997 – 02/28/1997 FY97: $205,000 Total: $205,000
Prin. Invest.: W A HISCOCK
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 8 52838 MONTANA STATE UNIVERSITY **6531**
GRADUATE STUDENT RESEARCH PROGRAM
07/11/1997 – 08/01/2000 FY97: $22,000 Total: $22,000
Prin. Invest.: T K MINTON
Tech. Officer: MSFC/J ZWIENER
CASE Category: 12 – CHEMISTRY

NAG 8 1098 MONTANA TECH OF THE UNIVERSITY OF MONTANA **6532**
JOVE
10/18/1994 – 05/31/1998 FY97: $15,347 Total: $100,501
Prin. Invest.: T MOON, K OLSON
Tech. Officer: MSFC/F SIX
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 8 1213 ROCKY MOUNTAIN COLLEGE **6533**
JOVE
09/22/1995 – 08/31/1998 FY97: $27,000 Total: $68,000
Prin. Invest.: J LYMAN
Tech. Officer: MSFC/D SIX
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 4 128 SALISH KOOTENAI COLLEGE **6534**
ALL NATIONS ALLIANCE FOR AMERICAN INDIANS IN SCIENCE, ENGINEER-ING AND MATHEMATICS
04/23/1997 – 04/23/1998 FY97: $399,513 Total: $399,513
Prin. Invest.: J GOBERT
Tech. Officer: DFRC/E L DUKE
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2297 UNIVERSITY OF MONTANA **6535**
SIMULATION OF BOREAL ECOSYSTEM CARBON AND WATER BU DGETS: SCALING FROM LOCAL TO REGIONAL EXTENTS...
07/12/1993 – 07/31/1997 FY97: $100,000 Total: $305,000
Prin. Invest.: S W RUNNING
Tech. Officer: GSFC/F G HALL, GSFC/P SELLERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3469 UNIVERSITY OF MONTANA **6536**
ASSESSMENT OF CLIMATIC AND ANTHROPOGENIC IMPACTS O CYCLE CONSTRAINED BY ATMOSPHERIC MEASUREMENTS AND
11/02/1996 – 10/31/1997 FY97: $51,782 Total: $51,782
Prin. Invest.: S RUNNING
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3852 UNIVERSITY OF MONTANA **6537**
MULTIPLE SCALE ANALYSIS OF FOREST BIOGEOCHEMISTRY: UATION AND IMPLEMENTATION OF RHESSYS
12/04/1996 – 02/28/1998 FY97: $192,397 Total: $192,397
Prin. Invest.: D W RUNNING
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4923 UNIVERSITY OF MONTANA **6538**
ASSIMILATION OF SAR DERIVED PARAMETER MAPS INTO BI OVER BOREAS STUDY AREA
06/23/1997 – 05/31/1998 FY97: $61,147 Total: $61,147
Prin. Invest.: S W RUNNING
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4234 UNIVERSITY OF MONTANA **6539**
MULTIPLE SCALE ANALYSIS OF FOREST BIOGEOCHEMISTRY DEVELOP-MENT, EVALUATION AND IMPLEMENTATIONOF RHEY
01/13/1995 – 02/28/1997 FY97: $0 Total: $392,395
Prin. Invest.: S W RUNNING, E B HUNT, R R NEMANI
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4511 UNIVERSITY OF MONTANA **6540**
VEMAP: MODEL INTERCOMPARISON OF PRIMARY PRODUCTION MAPS OF THE US
05/17/1995 – 06/30/1996 FY97: $0 Total: $100,448
Prin. Invest.: S RUNNING
Tech. Officer: HQ/A C JANETOS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5197 UNIVERSITY OF MONTANA **6541**
VEMAP PHASE II
09/26/1996 – 05/31/1997 FY97: $84,795 Total: $84,795
Prin. Invest.: S W RUNNING
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 5 31368 UNIVERSITY OF MONTANA **6542**
EOS MODIS INVESTIGATION FROM DR. STEVE RUNNING
01/07/1992 – 12/14/2001 FY97: $625,000 Total: $2,344,500
Prin. Invest.: S W RUNNING
Tech. Officer: GSFC/H OSEROFF
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30169 UNIVERSITY OF MONTANA **6543**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/23/1993 – 08/31/1996 FY97: –$1,720 Total: $64,280
Prin. Invest.: G N RICHARDS
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 30216 UNIVERSITY OF MONTANA **6544**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/26/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: S W RUNNING
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30020 UNIVERSITY OF MONTANA **6545**
DEVELOPING A GLOBAL PHENOLOGY MONITOR: A METHOD FO RESPONSES TO CLIMATE CHANGE
10/14/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: S RUNNING
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NEBRASKA

NAG 2 1003 CREIGHTON UNIVERSITY **6546**
EFFECTS OF WEIGHTLESSNESS ON VESTIBULAR DEVELOPMEN T IN QUAIL
08/23/1995 – 06/30/1998 FY97: $91,395 Total: $183,031
Prin. Invest.: B FRITZSCH, L L BRUCE
Tech. Officer: ARC/C M WINGET, ARC/G C JAHNS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 2 861 CREIGHTON UNIVERSITY **6547**
EFFECTGS OF WEIGHTLESSNESS ON VESTIBULAR DEVELOPME NT
06/21/1994 – 06/30/1997 FY97: $0 Total: $159,432
Prin. Invest.: B FRITZSCH, L L BRUCE
Tech. Officer: ARC/D A REISS–BUBENHEIM, ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 1 1447 UNIVERSITY OF NEBRASKA – LINCOLN **6548**
THEORETICAL EVALUATION OF THE RADIATION HAZARDS FROM COSMIC RAYS WITHIN SPACE VEHICLES
08/26/1992 – 12/31/1997 FY97: $0 Total: $70,001
Prin. Invest.: R KATZ
Tech. Officer: LARC/F A CUCINOTTA, LARC/E J CONWAY
CASE Category: 13 – PHYSICS

NAG 3 1802 UNIVERSITY OF NEBRASKA – LINCOLN **6549**
ELECTROCHROMICS AND OTHER MATERIALS FOR SPACE POWE R SYS-TEMS
01/25/1996 – 11/30/1997 FY97: $37,500 Total: $82,500
Prin. Invest.: J A WOOLAM
Tech. Officer: LERC/D A JAWORSKE
CASE Category: 13 – PHYSICS

NAG 5 2331 UNIVERSITY OF NEBRASKA – LINCOLN **6550**
SURFACE ENERGY AND WATER BALANCES OF FOREST AND WE TLAND SUBSYSTEMS IN THE BOREALFOREST: SURFACE..
07/27/1993 – 07/31/1997 FY97: $0 Total: $231,800
Prin. Invest.: D E JELINSKI
Tech. Officer: GSFC/F G HALL, GSFC/P SELLERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2585 UNIVERSITY OF NEBRASKA – LINCOLN **6551**
FIELD MICROMETEOROLOGICAL MEASUREMENTS, PROCESS LE VEL STUDIES, AND MODELING OF METHANE. . . .
05/05/1994 – 06/14/1997 FY97: $0 Total: $61,000
Prin. Invest.: S B VERMA
Tech. Officer: GSFC/F G HALL, GSFC/P J SELLERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2628 UNIVERSITY OF NEBRASKA – LINCOLN **6552**
LABORATORY EQUIPMENT FOR THE SOUTHERN STUDY AREAS
06/15/1994 – 06/14/1998 FY97: $30,800 Total: $74,631
Prin. Invest.: E WALTER–SHEA
Tech. Officer: GSFC/F HALL
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3215 UNIVERSITY OF NEBRASKA – LINCOLN **6553**
DIGITAL PROCESSING OF LANDSAT IMAGES
05/08/1996 – 05/14/1997 FY97: $0 Total: $28,155
Prin. Invest.: S E REICHENBACH
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3442 UNIVERSITY OF NEBRASKA – LINCOLN **6554**
CHARACTERIZATION OF LANDSAT–7 GEOMETRY AND RADIOME TRY FOR LAND COVER ANALYSES
10/07/1996 – 10/31/1997 FY97: $23,956 Total: $23,956
Prin. Invest.: D W MERCHANT
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4217 UNIVERSITY OF NEBRASKA – LINCOLN **6555**
CONSORTIUM FOR THE APPLICATION OF SPACE DATA TO ED
03/15/1997 – 12/31/1997 FY97: $477,000 Total: $477,000
Prin. Invest.: D RUNDQUIST
Tech. Officer: GSFC/J HARRIS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 5024 UNIVERSITY OF NEBRASKA – LINCOLN **6556**
COORDINATION OF SURFACE GLACIOLOGICAL INVESTIGA– TIONS & FIELD OPS: NASA OVERSNOWEXP, GREENLAND 94
05/25/1994 – 05/31/1998 FY97: $727,801 Total: $1,839,015
Prin. Invest.: K C KUIVINAN, NONE
Tech. Officer: GSFC/W B KRABILL
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6010 UNIVERSITY OF NEBRASKA – LINCOLN **6557**
INTERACTION OF RADIATION WITH PLANETARY GASES
07/28/1997 – 11/30/1997 FY97: $30,000 Total: $30,000
Prin. Invest.: D SAMSON
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 6025 UNIVERSITY OF NEBRASKA – LINCOLN **6558**
"COMPRESSION FOR REMOTE SENSING APPLICATIONS",
09/08/1997 – 09/14/1998 FY97: $55,000 Total: $55,000
Prin. Invest.: K SAYWOOD
Tech. Officer: GSFC/P YEH
CASE Category: 49 – ENGINEERING, OTHER

NAGW 1266 UNIVERSITY OF NEBRASKA – LINCOLN **6559**
SYNEPTIC ANALYSIS OF ICE MELT FROM NIMBUS–7 SMMR
03/15/1988 – 12/31/1996 FY97: $0 Total: $555,936
Prin. Invest.: M R ANDERSON
Tech. Officer: HQ/R H THOMAS, HQ/W S WILSON
CASE Category: 33 – OCEANOGRAPHY

NAGW 1751 UNIVERSITY OF NEBRASKA – LINCOLN **6560**
INTERACTION OF RADIATION WITH PLANETARY GASES
04/17/1989 – 11/30/1996 FY97: $0 Total: $367,631
Prin. Invest.: J A SAMSON
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAGW 3106 UNIVERSITY OF NEBRASKA – LINCOLN **6561**
REMOTE MEASUREMENT OF ICE SHEET PARAMETERS AT DEPTH
06/22/1992 – 03/31/1997 FY97: $0 Total: $515,416
Prin. Invest.: B L HANSEN, J R KELTY, K C KUIVINEN
Tech. Officer: HQ/R H THOMAS, HQ/J S THEON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3262 UNIVERSITY OF NEBRASKA – LINCOLN **6562**
NAGW–3262/UNIV NEBRASKA–LINCOLN/EVAL OF ADVANCED S ENSOR TECHNOLOGY
10/29/1992 – 09/30/1996 FY97: $0 Total: $130,678
Prin. Invest.: D RUNDQUIST, J MERCHANT, C KEITHLEY
Tech. Officer: HQ/M R HELFERT, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3940 UNIVERSITY OF NEBRASKA – LINCOLN **6563**
NAGW–3940/B UNIV. NEBRASKA–LINCOLN "REG. & GLOBAL LAND COVER CHAR. VIA SATELLITE.." 36–MO MULTI YR
04/19/1994 – 09/30/1997 FY97: $0 Total: $399,999
Prin. Invest.: J W MERCHANT
Tech. Officer: HQ/A J TUYAHOV, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3984 UNIVERSITY OF NEBRASKA – LINCOLN **6564**
NEBRASKA EARTH SCIENCE EDUC NETWORK–ENHANCING THE NASA UNIV & PRE–COLLEGE SCIENCETEACHER CONNECTION
05/25/1994 – 02/28/1997 FY97: $0 Total: $200,000
Prin. Invest.: D GALE, D C GOSSELIN, P B WIGLEY
Tech. Officer: HQ/E LUCIER, HQ/O SPAULDING
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4574 UNIVERSITY OF NEBRASKA – LINCOLN **6565**
CONSORTIUM FOR THE APPLICATION OF SPACE DATA TO ED UCATION
06/28/1995 – 12/31/1996 FY97: $0 Total: $689,750
Prin. Invest.: D C RUNDQUIST
Tech. Officer: HQ/A J TUYAHOV
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 5 169 UNIVERSITY OF NEBRASKA – LINCOLN **6566**
THE NEBRASKA INITIATIVE FOR AEROSPACE RESEARCH AND DEVELOPMENT
12/05/1996 – 11/14/1997 FY97: $500,000 Total: $500,000
Prin. Invest.: B D BOWEN
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51293 UNIVERSITY OF NEBRASKA – LINCOLN **6567**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/06/1994 – 11/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: S E REICHENBACH
Tech. Officer: HQ/D HOLLAND
CASE Category: 22 – COMPUTER SCIENCE

NGT 51379 UNIVERSITY OF NEBRASKA – LINCOLN **6568**
GRADUATE STUDIES RESEARCHER PROGRAM
06/26/1995 – 09/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: A SAMAL
Tech. Officer: HQ/D HOLLAND, HQ/D GLASCO
CASE Category: 22 – COMPUTER SCIENCE

NGT 5 50098 UNIVERSITY OF NEBRASKA – LINCOLN **6569**
LARGE SCALE DISTRIBUTED SYSTEMS FOR COMPUTER VISIO
09/06/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: SAMAL
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4362 UNIVERSITY OF NEBRASKA – MEDICAL CENTER **6570**
BLOOD VOLUME REGULATION IN PRIMATES DURING SPACE F LIGHT
03/22/1995 – 08/31/1997 FY97: $0 Total: $338,204
Prin. Invest.: K G CORNISH
Tech. Officer: HQ/F SULZMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 8 1274 UNIVERSITY OF NEBRASKA AT KEARNEY **6571**
JOVE RESEARCH STUDY
01/28/1997 – 08/31/1998 FY97: $69,116 Total: $69,116
Prin. Invest.: M GLASSER, D
Tech. Officer: MSFC/JF DOWDY, MSFC/J R PRUITT
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 40051 UNIVERSITY OF NEBRASKA–OMAHA **6572**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
07/26/1991 – 09/30/1997 FY97: $0 Total: $1,004,700
Prin. Invest.: B B BOWEN
Tech. Officer: HQ/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40037 UNIVERSITY OF NEBRASKA–OMAHA **6573**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
02/13/1997 – 02/28/1998 FY97: $220,000 Total: $220,000
Prin. Invest.: B D BOWEN
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NEVADA

NAG 1 1707 UNIV. OF NEVADA – DESERT RES. INST. **6574**
MICROPHYSICS AND RADIATIVE PROPERTIES OF CIRRUS: INSTRUMENTATION AND ANALYSIS
05/04/1995 – 05/03/1998 FY97: $66,000 Total: $198,000
Prin. Invest.: J HALLEH, W P ARNOTT
Tech. Officer: LARC/D S MCDOUGAL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1845 UNIV. OF NEVADA – DESERT RES. INST. **6575**
CLOUD CONDENSATION NUCLEI IN FIRE III MY 1/3
06/04/1996 – 06/03/1998 FY97: $52,779 Total: $104,020
Prin. Invest.: J G HUDSON
Tech. Officer: LARC/D S MCDOUGAL, LARC/J L RAPER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 923 UNIV. OF NEVADA – DESERT RES. INST. **6576**
CHARACTERIZATION OF AIRCRAFT PRODUCED SOOT AND CON TRAILS NEAR THE TROPOPAUSE
08/10/1994 – 12/31/1997 FY97: $50,000 Total: $300,050
Prin. Invest.: J HALLETT
Tech. Officer: ARC/E P CONDON, ARC/O B TOON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 1104 UNIV. OF NEVADA – DESERT RES. INST. **6577**
ANALYTICAL TOOLS FOR CLOUDSCOPE ICE MEASUREMENT
01/21/1997 – 12/31/1997 FY97: $57,779 Total: $57,779
Prin. Invest.: W P ARNOTT, J HALLETT
Tech. Officer: ARC/E P CONDON, ARC/S S WEGENER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3987 UNIV. OF NEVADA – DESERT RES. INST. **6578**
ORBITAL RADAR STUDIES OF EOLIAN PROCESSES IN THE M ANTARCTICA
03/24/1997 – 02/28/1998 FY97: $63,819 Total: $63,819
Prin. Invest.: N LANCASTER
Tech. Officer: GSFC/R H THOMAS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1947 UNIV. OF NEVADA – DESERT RES. INST. **6579**
EXOBIOLOGY SITE SELECTION FOR FUTURE MARS MISSIONS : MARTIAN PALEOLAKE SEDIMENTS & TERRESTRIAL ANAL.
04/27/1990 – 01/14/1998 FY97: $0 Total: $729,627
Prin. Invest.: R A WHARTON
Tech. Officer: HQ/J D RUMMEL
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAGW 3753 UNIV. OF NEVADA – DESERT RES. INST. **6580**
SOUTHERN HEMISPHERE CLOUD CONDENSATION NUCLEI
09/16/1993 – 09/30/1997 FY97: $0 Total: $286,220
Prin. Invest.: J G HUDSON, C TWOHY
Tech. Officer: HQ/J T SUTTLES, HQ/A C JANETOS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4214 UNIV. OF NEVADA – DESERT RES. INST. **6581**
NASA LANDSAT PATHFINDER GLOBAL LAND COVER TEST SITES PROJECT
11/17/1994 – 08/01/1998 FY97: $0 Total: $292,908
Prin. Invest.: K C MCGUIRE
Tech. Officer: HQ/M E MAIDEN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 2 5146 UNIV. OF NEVADA – DESERT RES. INST. **6582**
PALEOLAKES ON MARS AND TERRESTRIAL ANALOGS
08/09/1995 – 02/28/1997 FY97: $0 Total: $24,660
Prin. Invest.: R A WHARTON, JR., V GALCHENKO
Tech. Officer: ARC/C P MCKAY
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 30286 UNIV. OF NEVADA – DESERT RES. INST. **6583**
GLOBAL CHANGE FELLOWSHIP PROGRAM
10/10/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: R WHARTON,JR
Tech. Officer: HQ/J S THEON, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 40038 UNIV. OF NEVADA – DESERT RES. INST. **6584**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA
01/24/1997 – 02/28/1998 FY97: $170,000 Total: $170,000
Prin. Invest.: J V TARANIK
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 3917 UNIVERSITY OF NEVADA – LAS VEGAS **6585**
LABORATORY STUDIES OF THERMAL ENERGY CHARGE TRANSFUSIONS IN ASTROPHYSICAL PLASMAS
03/27/1997 – 02/14/1998 FY97: $24,000 Total: $24,000
Prin. Invest.: D H KWONG
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 3994 UNIVERSITY OF NEVADA – LAS VEGAS **6586**
EFFICIENT TRANSMISSION AND MANIPULATION OF SCIENTI
03/06/1997 – 02/28/1998 FY97: $90,000 Total: $90,000
Prin. Invest.: D LATIFI
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 22 – COMPUTER SCIENCE

NAGW 4279 UNIVERSITY OF NEVADA – LAS VEGAS **6587**
LABORATORY STUDIES OF THERMAL ENERGY CHARGE TRANSF ER OF SILICON AND IRON IONS INASTROPHYSICAL PLAS
02/03/1995 – 12/31/1997 FY97: $0 Total: $47,999
Prin. Invest.: V H KWONG
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 4349 UNIVERSITY OF NEVADA – LAS VEGAS **6588**
EPSCOR RELATED WORK IN ATOMIC AND MELECULAR ASTROPHYSICS AND PULTRUDED COMPSITES
03/18/1995 – 12/31/1997 FY97: $0 Total: $150,000
Prin. Invest.: R F BOEHM
Tech. Officer: HQ/A S MCGEE, HQ/E T SCHWARTZ
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAS 5 31231 UNIVERSITY OF NEVADA – LAS VEGAS **6589**
STIS CO–INVESTIGATOR SUPPORT
08/30/1991 – 09/30/2001 FY97: $77,000 Total: $318,301
Prin. Invest.: D WEISTROP
Tech. Officer: GSFC/D VITAGLIANO
CASE Category: 11 – ASTRONOMY

NGT 40042 UNIVERSITY OF NEVADA – LAS VEGAS **6590**
NGT–40042/UNIV NEVADA SYSTEM/NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
05/29/1991 – 09/30/1997 FY97: $0 Total: $1,004,000
Prin. Invest.: J A GARNDER
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 4471 UNIVERSITY OF NEVADA – RENO **6591**
MARTIAN PALEOLAKE SEDIMENTS AND TERRESTRIAL ANALOG CE–COVERED LAKES
06/17/1997 – 12/31/1997 FY97: $106,641 Total: $106,641
Prin. Invest.: D A WHARTON,JR.
Tech. Officer: GSFC/M MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 4151 UNIVERSITY OF NEVADA – RENO **6592**
STUDIES OF PLANETARY FAULTING
09/28/1994 – 07/31/1997 FY97: $37,354 Total: $111,383
Prin. Invest.: R A SCHULTZ
Tech. Officer: HQ/R WILLIAMS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 4976 UNIVERSITY OF NEVADA – RENO **6593**
ORBITAL RADAR STUDIES OF EOLIAN PROCESS IN THE MCMURDO DRY VALLEYS OF ANTARCTICA
03/01/1996 – 09/30/1997 FY97: $0 Total: $57,040
Prin. Invest.: D LANCASTER
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 32 – GEOLOGICAL SCIENCE

NCC 2 5119 UNIVERSITY OF NEVADA – RENO **6594**
SOLID PARTICLE DISPERSION AND COAGULATION EXPERIME NT
03/08/1995 – 12/31/1997 FY97: $0 Total: $63,527
Prin. Invest.: C F ROGERS
Tech. Officer: ARC/M L FONDA
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 3 548 UNIVERSITY OF NEVADA – RENO **6595**
AN INVESTIGATION INTO THE APPLICATION OF ACCOUSTIC PYROMETRY TO TURBINES
03/10/1997 – 12/31/1997 FY97: $55,331 Total: $55,331
Prin. Invest.: J A KLEPPE
Tech. Officer: LERC/G C FRALICK
CASE Category: 45 – ELECTRICAL ENGR

NEW HAMPSHIRE

NAG 8 1209 DANIEL WEBSTER COLLEGE **6596**
JOVE
09/25/1995 – 08/31/1998 FY97: $11,948 Total: $40,742
Prin. Invest.: D LOPEZ
Tech. Officer: MSFC/D SIX
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 663 DARTMOUTH COLLEGE **6597**
SUBORBITAL PROGRAM IN MAGNETOSPHERETIC & IONOSPHERIC PHYSICS
03/28/1990 – 01/31/1998 FY97: $30,423 Total: $418,493
Prin. Invest.: J W LABELLE
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 1098 DARTMOUTH COLLEGE **6598**
THEORETICAL STUDY GLOBAL GEOSPACE SYSTEM
11/01/1988 – 01/31/1998 FY97: $200,000 Total: $1,714,427
Prin. Invest.: M K HUDSON
Tech. Officer: GSFC/S A CURTIS, GSFC/M H ACUNA
CASE Category: 13 – PHYSICS

NAG 5 2252 DARTMOUTH COLLEGE **6599**
MESOSCALE PROCESSES AT MAGNETOSPHERIC BOUNDARIES A ND THEIR COUPLING TO THE IONOSPHERE
05/12/1993 – 06/30/1998 FY97: $282,000 Total: $1,219,000
Prin. Invest.: W LOTKO
Tech. Officer: GSFC/T J BIRMINGHAM, GSFC/J D BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 2743 DARTMOUTH COLLEGE **6600**
TIDES IN THE MESOPHERE AND LOWER THERMOSPHERE
10/06/1994 – 08/31/1996 FY97: –$56,933 Total: $74,067
Prin. Invest.: C G FESEN
Tech. Officer: GSFC/C H JACKMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3031 DARTMOUTH COLLEGE **6601**
REMOTE AND CLOSE SENSING OF FTE'S AND OTHER COHERENT MAGNETOPAUSE STRUCTURES
10/02/1995 – 01/14/1997 FY97: $0 Total: $29,014
Prin. Invest.: B SONNERUP
Tech. Officer: GSFC/M L GOLDSTEIN
CASE Category: 13 – PHYSICS

NAG 5 3212 DARTMOUTH COLLEGE **6602**
A PRECISE POSITION FOR RU0042+32
04/18/1996 – 10/31/1997 FY97: $0 Total: $1,993
Prin. Invest.: J THORSTENSEN
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 3498 DARTMOUTH COLLEGE **6603**
"RIVER FLOODING AND GLOBAL ENVIRONMENTAL CHANGE: A
12/02/1996 – 11/14/1997 FY97: $268,925 Total: $268,925
Prin. Invest.: R BRACKENRIDGE
Tech. Officer: GSFC/M BALTUCK
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4094 DARTMOUTH COLLEGE **6604**
PRIMORDIAL SOURCES OF GRAVITATIONAL RADIATION
03/14/1997 – 12/31/1997 FY97: $35,000 Total: $35,000
Prin. Invest.: D GLEISER
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 4178 DARTMOUTH COLLEGE **6605**
GLOBAL FLOOD MONITORING AND ANALYSIS
03/19/1997 – 03/30/1998 FY97: $53,842 Total: $53,842
Prin. Invest.: G BRAKENRIDGE
Tech. Officer: GSFC/R H THOMAS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4529 DARTMOUTH COLLEGE **6606**
DISPERSIVE ALFVEN DYNAMICS OF THE MAGNETOSPHERE–IO
05/09/1997 – 08/31/1998 FY97: $79,793 Total: $79,793
Prin. Invest.: D LOTKO
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 4606 DARTMOUTH COLLEGE **6607**
GLOBAL HELIOSPHERIC STRUCTURE AND DYNAMICS: DARTMO
05/20/1997 – 02/28/1998 FY97: $25,000 Total: $25,000
Prin. Invest.: D G LYON
Tech. Officer: GSFC/M A FORMAN
CASE Category: 11 – ASTRONOMY

NAG 5 4663 DARTMOUTH COLLEGE **6608**
DATA ASSIMILATIVE ANALYSIS OF THE GGS DATA SET USI
06/05/1997 – 05/31/1998 FY97: $35,000 Total: $35,000
Prin. Invest.: D G LYON
Tech. Officer: GSFC/J GREBOWSKY
CASE Category: 13 – PHYSICS

NAG 5 4889 DARTMOUTH COLLEGE **6609**
SIMULATION OF THE DAYSIDE MAGNETOSPHERE AND MAGNET
06/18/1997 – 04/30/1998 FY97: $73,400 Total: $73,400
Prin. Invest.: D G LYON
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 4943 DARTMOUTH COLLEGE **6610**
INVESTIGATION OF EQUATORIAL SPREAD F ROCKET DATA
06/23/1997 – 05/31/1998 FY97: $19,219 Total: $19,219
Prin. Invest.: D W LABELLE
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 5039 DARTMOUTH COLLEGE **6611**
ELECTRIC FIELD ANALYSIS AND HIGH FREQUENCY MEASURE MENTS FOR THE AURORAL TURBULENCE II SOUNDING ROCK
06/07/1995 – 12/31/1997 FY97: $69,312 Total: $201,183
Prin. Invest.: J W LABELLE
Tech. Officer: GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 6268 DARTMOUTH COLLEGE **6612**
AUTOMATED ANALYSIS OF REMOTELY–SENSED 2D MAGNETOPA
08/21/1997 – 07/31/1998 FY97: $63,007 Total: $63,007
Prin. Invest.: D O SONNERUP
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 8 1359 DARTMOUTH COLLEGE **6613**
R/S "HETEROZYGOUS ATAXIA–TELANGIECTASIA HUMAN MAMMARY CELLS AS A MICROGRAVITY BASED MODEL
06/18/1997 – 11/30/1997 FY97: $64,000 Total: $64,000
Prin. Invest.: R RICHMOND
Tech. Officer: JSC/S GONDA
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 2656 DARTMOUTH COLLEGE **6614**
TIDAL COUPLING IN THE IONOSPHERE
07/15/1991 – 08/31/1997 FY97: $0 Total: $217,646
Prin. Invest.: C G FESEN
Tech. Officer: HQ/M M MELLOTT, HQ/J D BOHLIN
CASE Category: 49 – ENGINEERING, OTHER

NAGW 3227 DARTMOUTH COLLEGE **6615**
SOIL CARBON INVENTORY AND CARBON FLUX RESPONES TO LANDUSE CHANGE, NORTHERN NEW ENGLAND
10/26/1992 – 07/31/1997 FY97: $69,026 Total: $366,979
Prin. Invest.: R BRAKENRIDGE
Tech. Officer: HQ/M BALTUCK
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3989 DARTMOUTH COLLEGE **6616**
OBLIQUE ALFVEN DYNAMICS OF THE PLASMA SHEET IONO– SPHERE INTERACTION
05/13/1994 – 08/31/1997 FY97: $0 Total: $215,445
Prin. Invest.: W LOTKO
Tech. Officer: HQ/M M MELLOTT, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4023 DARTMOUTH COLLEGE **6617**
SMALL SCALE STRUCTURE OF THE MAGNETOPAUSE
05/24/1994 – 01/31/1997 FY97: $0 Total: $189,000
Prin. Invest.: B SONNERUP
Tech. Officer: HQ/E C WHIPPLE, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4270 DARTMOUTH COLLEGE **6618**
PRIMORDIAL SOURCES OF GRAVITATIONAL RADIATION
01/31/1995 – 12/31/1997 FY97: $0 Total: $70,000
Prin. Invest.: M GLEISER
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 4540 DARTMOUTH COLLEGE **6619**
SIMULATION OF THE DAYSIDE MAGNETOSPHERE AND MAGNET OSHEATH
05/26/1995 – 04/30/1997 FY97: $0 Total: $138,000
Prin. Invest.: J G LYON
Tech. Officer: HQ/R A HOFFMAN, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4583 DARTMOUTH COLLEGE **6620**
"GLOBAL HELIOSPHERIC STRUCTURE AND DYNAMICS"
06/19/1995 – 02/28/1997 FY97: $0 Total: $50,000
Prin. Invest.: J G LYON
Tech. Officer: HQ/W V JONES, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4728 DARTMOUTH COLLEGE **6621**
MAGNETIC STORMS EFFECTS ON PARTICLE ENERGIZATION IN THE MAGNETOSPHERE
09/05/1995 – 08/31/1997 FY97: $0 Total: $86,000
Prin. Invest.: M K HUDSON
Tech. Officer: HQ/R A HOFFMAN, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4982 DARTMOUTH COLLEGE **6622**
GLOBAL FLOOD MONITORING
04/01/1996 – 03/31/1997 FY97: $0 Total: $62,779
Prin. Invest.: R BRAKENRIDGE
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 5071 DARTMOUTH COLLEGE **6623**
INVESTIGATION OF EQUATORIAL SPREAD F ROCKET DATA
05/20/1996 – 05/31/1997 FY97: $0 Total: $29,959
Prin. Invest.: J W LABELLE
Tech. Officer: HQ/M M MELLOTT, HQ/G L WITHBROE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 5137 DARTMOUTH COLLEGE **6624**
AUTOMATED ANALYSIS OF REMOTELY-SENSED 2D MAGNETOPA USE STRUCTURES
07/24/1996 – 07/31/1997 FY97: $0 Total: $60,274
Prin. Invest.: B O SONNERUP
Tech. Officer: HQ/J D BOHLIN, HQ/G L WITHBROE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5214 DARTMOUTH COLLEGE **6625**
DETAILED QUANTITATIVE COMPARISON BETWEEN GLOBAL MH D SIMULATION RESULTS AND MULTIPOINT SPACECRAFT OB
09/30/1996 – 08/31/1997 FY97: $15,000 Total: $15,000
Prin. Invest.: J G LYON
Tech. Officer: HQ/J D BOHLIN, HQ/G L WITHBROE
CASE Category: 13 – PHYSICS

NAS 9 19572 DARTMOUTH COLLEGE **6626**
NEUROLAB MISSION SUPPORT SERVICES
09/12/1996 – 04/28/1998 FY97: $200,000 Total: $275,000
Prin. Invest.: J C BUCKEY
Tech. Officer: JSC/L K NEWKIRK
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 2 849 DARTMOUTH COLLEGE **6627**
CHARACTERIZING THE WORKLOAD OF MULTIPROCESSOR FILE SYSTEMS
04/13/1994 – 01/31/1997 FY97: $0 Total: $149,622
Prin. Invest.: D F KOTZ
Tech. Officer: ARC/T E HARNESS
CASE Category: 22 – COMPUTER SCIENCE

NGT 51160 DARTMOUTH COLLEGE **6628**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/22/1993 – 06/30/1996 FY97: $0 Total: $66,000
Prin. Invest.: D KOTZ
Tech. Officer: HQ/P HUNTER
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NGT 51657 DARTMOUTH COLLEGE **6629**
GRAD STUD RES PROG
08/20/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: M HUDSON
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 5 50059 DARTMOUTH COLLEGE **6630**
A STUDY OF SUBSTORM RELATED PULSATIONS IN THE EART
07/25/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: M HUDSON
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50093 DARTMOUTH COLLEGE **6631**
SOUNDING ROCKET BASED INVESTIGATIONS OF AURORAL HI GRADUATE STUDENT RESEARCHERS PROGRAM
08/21/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: LABELLE
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 11 – ASTRONOMY

NGT 5 50153 DARTMOUTH COLLEGE **6632**
SIMULATION OF THE CAVITY MODE STRUCTURE OF THE INN DIPOLE GEOMETRY/JERRY GOLDSTEIN
09/11/1997 – 09/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: M HUDSON
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 1 1233 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6633**
MEASUREMENTS OF NITRIC ACID, CARBOXYLIC ACIDS, AND SELECTED AEROSOL SPECIES FOR THE NASA/GTE PACIFIC
04/09/1991 – 05/31/1997 FY97: $0 Total: $849,092
Prin. Invest.: R W TALBOT, J E DIBB, O KLEMM
Tech. Officer: LARC/J M HOELL, LARC/B ANDERSON
CASE Category: 43 – CHEMICAL ENGR

NAG 1 1761 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6634**
MEASUREMENTS OF ACIDIC GASES AND AEROSOL SPECIES A BOARD THE NASA DC-8 AIRCRAFT DURING PEM-TROPICS
09/29/1995 – 03/31/1998 FY97: $0 Total: $357,353
Prin. Invest.: D W TALBOT, D E DIBB
Tech. Officer: LARC/J M HOELL, JR., LARC/R J BENDURA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 1027 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6635**
ATMOSPHERIC AEROSOL CHEMICAL COMPOSITION MEASUREME NTS FOR THE SUBSONIC AIRCRAFT: CONTRAIL & CLOUD.
02/22/1996 – 01/14/1998 FY97: $18,985 Total: $117,812
Prin. Invest.: R W TALBOT, J E DIBB
Tech. Officer: ARC/E P CONDON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 1101 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6636**
MEASUREMNT OF NITRIC & AEROSOL SPECIES ABOARD THE NASA DC-8 AIRCRAFT DURING THE SASS OZONE &.....
01/13/1997 – 12/31/1997 FY97: $259,244 Total: $259,244
Prin. Invest.: R TALBOT
Tech. Officer: ARC/E P CONDON, ARC/S S WEGENER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 3 1599 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6637**
SUITABILITY OF ELECTRIC FIELD & PARTICLE MEASUREMENT FOR TROPIX–LIKE MISSION
06/01/1994 – 05/31/1997 FY97: $0 Total: $10,180
Prin. Invest.: R B TORBERT
Tech. Officer: LERC/J M HICKMAN
CASE Category: 13 – PHYSICS

NAG 5 692 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6638**
SOUNDING OF THE CLEFT ION FOUNDATION ENERGIZATION REGION
05/26/1992 – 05/31/1997 FY97: $0 Total: $405,400
Prin. Invest.: R ARNOLDY
Tech. Officer: WFF/L J EARLY, WFF/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 1479 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6639**
THEORETICAL STUDIES ON THE CHROMOSPHERE, CORONA, AND SOLAR WIND
11/26/1990 – 03/14/1998 FY97: $338,160 Total: $2,212,230
Prin. Invest.: J V HOLLWEG, M A LEO
Tech. Officer: GSFC/T J BIRMINGHAM
CASE Category: 13 – PHYSICS

NAG 5 1561 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6640**
PROBING SOLAR PARTICLE ACCELERATION DURING THE 22N D SOLAR MAXIMUM WITH GRO/OSSE
04/17/1991 – 12/31/1996 FY97: $0 Total: $337,024
Prin. Invest.: W T VESTRAND
Tech. Officer: GSFC/J P NORRIS, GSFC/D A KNIFFEN
CASE Category: 11 – ASTRONOMY

NAG 5 2289 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6641**
MAGNITUDE AND CONTROL OF TRACT GAS EXCHANGE IN BOR EAL OCESYSTEMS
06/14/1993 – 07/14/1997 FY97: $86,000 Total: $494,569
Prin. Invest.: P M CRILL
Tech. Officer: GSFC/F G HALL, GSFC/P SELLERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2290 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6642**
MODELING CLIMATE–BIOSPHERE INTERACTIONS IN THE BOR EAL FOREST
06/14/1993 – 06/14/1997 FY97: $78,000 Total: $258,000
Prin. Invest.: R C HARRISS
Tech. Officer: GSFC/F G HALL, GSFC/P SELLERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2350 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6643**
DETERMINING THE CHARACTERISTICS OF SOLAR MICROFLAR ES WITH BATSE
08/12/1993 – 02/28/1998 FY97: $0 Total: $273,326
Prin. Invest.: J M RYAN
Tech. Officer: GSFC/J NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2388 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6644**
INVESTIGATION OF BATSE SENSITIVITY TO POLARIZED GA MMA–RADIATION
10/06/1993 – 10/14/1996 FY97: $0 Total: $54,963
Prin. Invest.: M L MCCONNELL
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2420 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6645**
USE OF EGRET HIGH ENERGY CAPABILITY TO INVESTIGATE ENERGETIC SOLAR FLARE PROCESSES
11/06/1993 – 11/14/1997 FY97: $0 Total: $77,296
Prin. Invest.: E CHUPP, D L BERTSCH
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2731 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6646**
FRACTAL AND WAVELET INVESTIGATIONS OF BURST AND TRANSIENT DATA
09/21/1994 – 09/30/1996 FY97: –$1 Total: $14,999
Prin. Invest.: D C MEREDITH
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2834 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6647**
PARTICIPATION IN THE MISSION OPERATIONS AND DATA ANALYSIS PHASE OF THE GGS/WIND MISSION
12/12/1994 – 01/14/1998 FY97: $215,000 Total: $598,150
Prin. Invest.: R B TORBERT
Tech. Officer: GSFC/K W OGILVIE
CASE Category: 13 – PHYSICS

NAG 5 3157 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6648**
MULTIWAVELENGTH SEARCH FOR CORRELATED TIME VARIATIONS IN THE BRIGHTEST EGRET BLAZARS.....
01/23/1996 – 01/31/1998 FY97: $0 Total: $71,223
Prin. Invest.: W R VESTRAND
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3440 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6649**
ACQUISITION AND ANALYSIS OF LARGE QUANTITIES OF LA NDSAT–7 DATA FOR MEASURINGTROPICAL LAND COVER .
10/07/1996 – 08/14/1997 FY97: $217,235 Total: $217,235
Prin. Invest.: D SKOLE
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3518 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6650**
CHARACTERIZATION OF SOLAR FLARE PROTON SPECTRAL US
11/25/1996 – 11/14/1997 FY97: $24,982 Total: $24,982
Prin. Invest.: E L CHUPP
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3527 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6651**
ASSESSING THE EFFECTS OF HISTORICAL LAND USE ON FO RESPONSE TO CLIMATE CHANGEAND CO2: A REMOTE SENS
11/18/1996 – 11/14/1997 FY97: $199,786 Total: $199,786
Prin. Invest.: M MARTIN
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3671 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6652**
CONTINUED STUDIES OF SOUTHERN HEMISPHERE GAMMA–RAY PARADIGMS FOR TWO BLAZAR PROTOTYPES
01/02/1997 – 12/31/1997 FY97: $47,995 Total: $47,995
Prin. Invest.: W VESTRAND
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3747 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6653**
MAXWELL, FARADAY, AND VLASOV: 3 DIRECT MEASUREMENT
03/10/1997 – 03/14/1999 FY97: $60,872 Total: $60,872
Prin. Invest.: D A LYNCH
Tech. Officer: GSFC/R HOWARD
CASE Category: 13 – PHYSICS

NAG 5 3807 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6654**
CONTINUED STUDIES OF SOLAR MICROFLARES WITH BATSE
12/12/1996 – 12/31/1997 FY97: $15,000 Total: $15,000
Prin. Invest.: J M RYAN
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3815 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6655**
COORDINATED X-RAY OBSERVATIONS OF THE GAMMA-RAY BL AND PKS 0208-512
01/24/1997 – 01/31/1998 FY97: $22,900 Total: $22,900
Prin. Invest.: T W VESTRAND
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3857 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6656**
MAPPING THE AGE OF SECONDARY TROPICAL FORESTS USIN ANCILLARY DATA
12/19/1996 – 12/14/1997 FY97: $25,498 Total: $25,498
Prin. Invest.: D SKOLE
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3893 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6657**
PRE-LAUNCH EQUATOR-S EFFORT
02/11/1997 – 02/14/1998 FY97: $75,000 Total: $75,000
Prin. Invest.: R B TORBERT
Tech. Officer: GSFC/M HESSE
CASE Category: 13 – PHYSICS

NAG 5 3978 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6658**
BOREAL FOREST WATCH: A BOREAS OUTREACH PROGRAM
03/03/1997 – 01/31/1998 FY97: $61,758 Total: $61,758
Prin. Invest.: B N ROCK
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4177 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6659**
USE OF SAR FOR MONITORING DEFORESTATION AND SECOND TROPICS
03/19/1997 – 12/31/1997 FY97: $43,061 Total: $43,061
Prin. Invest.: D SKOLE
Tech. Officer: GSFC/R H THOMAS
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAG 5 4407 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6660**
PRE-LAUNCH EQUATOR-S EFFORT
05/07/1997 – 05/14/1998 FY97: $65,000 Total: $65,000
Prin. Invest.: R B TORBERT
Tech. Officer: GSFC/M HESSE
CASE Category: 13 – PHYSICS

NAG 5 4408 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6661**
PRE-LAUNCH EQUATOR-S EFFORT
05/21/1997 – 05/14/1998 FY97: $75,002 Total: $75,002
Prin. Invest.: L M KISTLER
Tech. Officer: GSFC/M HESSE
CASE Category: 13 – PHYSICS

NAG 5 4458 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6662**
MAGNETOTAIL-IONOSPHERE COUPLING
05/14/1997 – 04/30/1998 FY97: $63,900 Total: $63,900
Prin. Invest.: D L KAUFMANN
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 4616 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6663**
HUMAN DIMENSIONS OF DEFORESTATION & REGROWTH IN TH INTEGRATING DATA FROM SATELLITES,DEMOGRAPHIC CENS
05/21/1997 – 05/14/1999 FY97: $253,000 Total: $253,000
Prin. Invest.: D SKOLE
Tech. Officer: GSFC/N MAYNARD
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4695 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6664**
TRANSPORT OF ENERGETIC IONS IN THE RING CURRENT DU S
06/17/1997 – 05/14/1998 FY97: $59,000 Total: $59,000
Prin. Invest.: D M KISTLER
Tech. Officer: GSFC/J GREBOWSKY
CASE Category: 13 – PHYSICS

NAG 5 4772 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6665**
WAVE ACCELERATION OF AURORAL IONS; AMICIST DATA SE
06/09/1997 – 06/14/1998 FY97: $34,155 Total: $34,155
Prin. Invest.: D A LYNCH
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 4785 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6666**
AN INTEGRATED SYSTEM FOR WATER BUDGET CLOSURE OVER MASS: A TRMM VALIDATION EFFORT
07/03/1997 – 06/30/1998 FY97: $57,000 Total: $57,000
Prin. Invest.: C VOROSMARTY
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4815 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6667**
CASE STUDIES AND DIAGNOSTIC MODELS OF THE INTER-AN DEFORESTATION IN SOUTHEASTASIA
06/24/1997 – 10/31/1998 FY97: $235,000 Total: $235,000
Prin. Invest.: D SKOLE
Tech. Officer: GSFC/A JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4818 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6668**
STUDIES OF INTERSTELLAR PICKUP IONS IN THE SOLAR W
06/18/1997 – 06/14/1998 FY97: $75,000 Total: $75,000
Prin. Invest.: D A ISENBERG
Tech. Officer: GSFC/M A FORMAN
CASE Category: 11 – ASTRONOMY

NAG 5 4856 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6669**
MAGNETIC RECONNECTION IN SOLAR FLARES
07/15/1997 – 05/14/1998 FY97: $81,000 Total: $81,000
Prin. Invest.: D G FORBES
Tech. Officer: GSFC/W J WAGNER
CASE Category: 11 – ASTRONOMY

NAG 5 5007 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6670**
AMICIST NEW AWARD
05/12/1993 – 12/31/1997 FY97: $40,000 Total: $587,195
Prin. Invest.: R ARNOLDY
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 5010 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6671**
PARTICLE MEASUREMENTS ABOVE AN ACTIVE THUNDERSTORM PARTICLE MEASUREMENTS ABOVE AN ACTIVE THUNDERSTOR
05/12/1993 – 10/31/1996 FY97: $0 Total: $147,990
Prin. Invest.: C KLETZING
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 5033 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6672**
AURORAL TURBULENCE II FIRST YEAR OF A THREE-YEAR EFFORT IN BASIC
04/12/1995 – 12/31/1997 FY97: $153,105 Total: $475,200
Prin. Invest.: R B TORBERT
Tech. Officer: GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 5040 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6673**
DUST DETECTOR
07/27/1995 – 06/30/1998 FY97: $47,245 Total: $151,640
Prin. Invest.: K A LYNCH
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 – PHYSICS

NAG 5 5057 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6674**
A CO-INVESTIGATOR PROPOSAL FOR CORNELL UNIVERSITY CAPER
06/25/1996 – 05/31/1998 FY97: $167,570 Total: $280,365
Prin. Invest.: R ARNOLDY
Tech. Officer: GSFC/L W GURKIN
CASE Category: 13 – PHYSICS

NAG 5 5117 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6675**
THE TIGRE INSTRUMENT FOR INTERMEDIATE-ENERGY GAMMA-RAY ASGTRONOMY FOR 0.3 TO 100MEV
04/18/1997 – 10/31/1997 FY97: $50,410 Total: $50,410
Prin. Invest.: J RYAN
Tech. Officer: GSFC/H NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5124 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6676**
ENSTROPHY – FILAMENTATION OF AURORAL CURRENTS
03/10/1997 – 01/31/1998 FY97: $20,000 Total: $20,000
Prin. Invest.: K LYNCH
Tech. Officer: GSFC/B FLOWERS
CASE Category: 13 – PHYSICS

NAG 5 5147 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6677**
MINUTE OF ARC RESOLUTION GAMMA-RAY IMAGING EXPERIMENT (MARGIE)
07/02/1997 – 12/31/1997 FY97: $133,000 Total: $133,000
Prin. Invest.: J RYAN
Tech. Officer: GSFC/H NEEDLEMAN
CASE Category: 13 – PHYSICS

NAG 5 5157 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6678**
"OTOLLITH-CANAL CONVERGENCE IN VESTIBULAR NUCLEI N
07/21/1997 – 04/30/1998 FY97: $43,657 Total: $43,657
Prin. Invest.: W T VESTRAND
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 5192 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6679**
MONITORING INITIAL STAGES OF FOREST RECOVERY IN T CZECH REPUBLIC
07/18/1997 – 07/31/1998 FY97: $146,012 Total: $146,012
Prin. Invest.: B ROCK
Tech. Officer: GSFC/D WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6115 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6680**
THE BIO-ATMOSPHERIC CYCLES OF NITROGEN AND CARBON: POLLUTION AND TERRESTRIAL
07/28/1997 – 07/31/1998 FY97: $34,186 Total: $34,186
Prin. Invest.: B BRASWELL
Tech. Officer: GSFC/D WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6137 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6681**
TRANSFER FUNDS TO UNIVERSITY OF NEW HAMPSHIRE IN S ENTITLED: CHANGES IN BIOGEOCHEMICAL CYCLES
08/11/1997 – 05/31/1998 FY97: $1,933,573 Total: $1,933,573
Prin. Invest.: B MOORE, III
Tech. Officer: GSFC/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6289 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6682**
DEVELOPMENT OF A PARTICLE BACKSCATTERING ALGORITHM CONCURRENT SHIP MEASUREMENTS, AND GLOBAL BIOGEOCH
09/10/1997 – 08/31/1998 FY97: $91,384 Total: $91,384
Prin. Invest.: J W CAMPBELL
Tech. Officer: GSFC/J A YODER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 1245 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6683**
SPECTROCHARACTERIZATION OF FOREST DECLINE DAMAGE
04/13/1988 – 12/31/1996 FY97: $0 Total: $855,346
Prin. Invest.: B N ROCK
Tech. Officer: HQ/D E WICKLAND, HQ/M J RUZEK
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 2579 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6684**
STUDIES OF INTERSTELLAR PICKUP IONS IN THE SOLAR W IND
06/26/1991 – 09/30/1997 FY97: $0 Total: $384,600
Prin. Invest.: P A ISENBERG
Tech. Officer: HQ/W V JONES
CASE Category: 13 – PHYSICS

NAGW 2669 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6685**
CHANGES IN BIOGEOCHEMICAL CYCLES: EXECUTION PHASES
09/03/1991 – 12/31/1996 FY97: –$700 Total: $9,039,208
Prin. Invest.: B MOORE
Tech. Officer: HQ/R E MURPHY, HQ/W S WILSON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 2697 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6686**
ELECTRON BEAM EXPERIMENT COLLABORATION
09/03/1991 – 09/30/1996 FY97: $0 Total: $238,240
Prin. Invest.: C KLETZING, R B TORBERT
Tech. Officer: HQ/E C WHIPPLE, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 3185 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6687**
NAGW–3185/UNIV NEW HAMPSHIRE/LANDSAT PATHFINDER ST REAM 1: TROPICAL DEFORESTATION MAPPING
08/28/1992 – 09/30/1997 FY97: $0 Total: $2,827,156
Prin. Invest.: B M MOORE, D L SKOLE
Tech. Officer: HQ/M E MAIDEN, HQ/D M BUTLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3454 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6688**
STUDIES USING IMP, VOYAGER AND PIONEER COSMIC RAY DATA TO DETERMINE THE SIZE OF THE HELIOSPHERE
03/19/1993 – 02/28/1996 FY97: –$11 Total: $66,168
Prin. Invest.: J A LOCKWOOD
Tech. Officer: HQ/W V JONES, HQ/G L WITHBROE
CASE Category: 13 – PHYSICS

NAGW 3463 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6689**
CHROMOSPHERIC EVAPORATION IN MAGNETIC RECONNECTION MODELS OF SOLAR FLARES
03/23/1993 – 03/31/1997 FY97: $0 Total: $135,569
Prin. Invest.: T G FORBES
Tech. Officer: HQ/W J WAGNER, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 3538 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6690**
ANALYSIS OF GAMMA RAY DATA FROM SOLAR FLARES IN CY CLES 21 AND 22
04/22/1993 – 03/31/1996 FY97: $0 Total: $255,000
Prin. Invest.: W VESTRAND
Tech. Officer: HQ/W J WAGNER, HQ/J D BOHLIN
CASE Category: 11 – ASTRONOMY

NAGW 3676 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6691**
A STUDY OF THE ELECTRON DRIFT INSTRUMENT ON EQUATO R–S
07/13/1993 – 04/30/1997 FY97: $0 Total: $998,935
Prin. Invest.: R B TORBERT
Tech. Officer: HQ/E C WHIPPLE, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 3720 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6692**
NEW PRODUCTION IN THE NORTH ATLANTIC DERIVED FROM SEASONAL PATTERNS IN SEAWIFS DATA
09/14/1993 – 06/30/1997 FY97: $0 Total: $501,953
Prin. Invest.: J W CAMPBELL
Tech. Officer: HQ/R E MURPHY, HQ/D M BUTLER
CASE Category: 33 – OCEANOGRAPHY

NAGW 3723 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6693**
STUDY OF THE EQUATORIAL MAGNETOSPHERE WITH A TIME– OF–FLIGHT MASS SPECTROMETER
09/07/1993 – 09/30/1997 FY97: $0 Total: $410,901
Prin. Invest.: E MOBIUS
Tech. Officer: HQ/E C WHIPPLE, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 3761 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6694**
DESIGN AND DEVELOPMENT FOR A MINUTE OF ARC GAMMA RAY IMAG-ING EXPERIMENT
10/28/1993 – 09/30/1997 FY97: $0 Total: $214,970
Prin. Invest.: J RYAN
Tech. Officer: HQ/L J KALUZIENSKI, HQ/A N BUNNER
CASE Category: 11 – ASTRONOMY

NAGW 3774 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6695**
CONTROL OF METHANE PRODUCTION AND EXCHANGE IN NORT HERN PEATLANDS
10/01/1993 – 06/30/1996 FY97: $0 Total: $336,000
Prin. Invest.: P M CRILL
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3980 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6696**
LOCALIZED IONOSPHERIC PARTICLE ACCELERATION
05/25/1994 – 04/30/1998 FY97: $0 Total: $93,520
Prin. Invest.: K LYNCH
Tech. Officer: HQ/M M MELLOTT, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4204 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6697**
BOREAS OUTREACH
11/09/1994 – 10/31/1996 FY97: $0 Total: $97,438
Prin. Invest.: D BARTLETT, B N ROCK, D MOSS
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4416 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6698**
FLOODPLAIN AND RIVER DYNAMICS IN THREE LARGE SOUTH AMERICAN RIVERS: AN INTEGRATION OF REMOTE SENSING
04/20/1995 – 09/30/1997 FY97: $0 Total: $137,205
Prin. Invest.: C J VOROSMARTY, J M MELACK, C J WILLMOTT
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4518 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6699**
DINETIC ALFVEN WAVE ELECTRON ACCELERATION ON AURORAL FIELDS LINES
05/26/1995 – 04/30/1998 FY97: $0 Total: $53,635
Prin. Invest.: C KLETZING
Tech. Officer: HQ/D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4539 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6700**
MAGNETOTAIL–IONOSPHERE COUPLING
06/06/1995 – 06/30/1997 FY97: $0 Total: $145,100
Prin. Invest.: R L KAUFMANN
Tech. Officer: HQ/R A HOFFMAN, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4663 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6701**
GLOBAL ANALYSIS, INTERPRETATION, AND MODELLING (GA IM) FIRST INTERNATIONAL SCIENCE CONFERENCE
07/31/1995 – 07/31/1996 FY97: –$2 Total: $88,853
Prin. Invest.: B MOORE, 111
Tech. Officer: HQ/M Y WEI, HQ/N MAYNARD
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4695 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6702**
HUMAN DIMENSIONS OF DEFORESTATION & REGROWTH IN TH E BRAZILIAN AMAZON: INTEGRATING DATA FROM SATELLI
08/18/1995 – 09/30/1997 FY97: $0 Total: $110,000
Prin. Invest.: D SKOLE, S SANDERSON, C WOOD
Tech. Officer: HQ/N MAYNARD, HQ/R C HARRISS
CASE Category: 79 – SOCIAL SCIENCE, OTHER

NAGW 4706 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6703**
GLOBAL ANALYSIS INTERPRETATION AND MODELLING: DEV ELOPING AN EARTH SYSTEMS MODELLING PROGRAM
08/24/1995 – 09/30/1997 FY97: $0 Total: $376,349
Prin. Invest.: B MOORE
Tech. Officer: HQ/M Y WEI, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4783 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6704**
HIGH SPECTRAL RESOLUTION REMOTE SENSING OF FOLIAR CHEMISTRY AND SPECIES COMPOSITION
09/22/1995 – 09/30/1998 FY97: $0 Total: $41,851
Prin. Invest.: M E MARTIN, J D ABER
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI,OTHER

NAGW 4802 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6705**
METHOD COMPARISON FOR THE ESTIMATION OF FOLIAR CHE MISTRY FROM HIGH SPECTRAL RESOLUTION VISIBLE AND
10/03/1995 – 02/28/1997 FY97: $0 Total: $185,834
Prin. Invest.: M E MARTIN, J D ABER
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4919 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6706**
PROVIDING ON–LINE ENERGETIC ION COMPOSITION DATA F ROM AMPTE IRM
02/05/1996 – 01/31/1997 FY97: $0 Total: $10,000
Prin. Invest.: D KISTTER
Tech. Officer: HQ/J WILLETT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4920 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6707**
USE OF SAR FOR MONITORING DEFORESTATION AND SECOND ARY GROWTH IN THE TROPICS
02/05/1996 – 09/30/1997 FY97: $0 Total: $47,331
Prin. Invest.: D SKOLE
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAGW 5028 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6708**
CHANGES IN BIOGEOCHEMICAL CYCLES
04/11/1996 – 09/30/1997 FY97: $0 Total: $241,133
Prin. Invest.: B MOORE, III
Tech. Officer: HQ/A C JANETOS, HQ/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 5074 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6709**
THE DEVELOPMENT OF A SOLAR FLARE HARD X–RAY/GAMMA– RAY POLARIMETER
05/21/1996 – 05/31/1998 FY97: $0 Total: $84,200
Prin. Invest.: M L MCCONNELL
Tech. Officer: HQ/W J WAGNER, HQ/G L WITHBROE
CASE Category: 11 – ASTRONOMY

NAGW 5076 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6710**
DEMONSTRATION OF SONTRAC PRINCIPLES — A SOLAR NEU TRON TRACK CHAMBER TELESCOPE
05/23/1996 – 05/31/1997 FY97: $0 Total: $87,000
Prin. Invest.: J M RYAN
Tech. Officer: HQ/W J WAGNER, HQ/G L WITHBROE
CASE Category: 11 – ASTRONOMY

NAGW 5140 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6711**
TIME–IN–FLIGHT MASS SPECTROGRAPH WITH INSTANEOUS C OVERAGE OF THE FULL ENERGYRANGE
07/31/1996 – 09/30/1997 FY97: $0 Total: $56,600
Prin. Invest.: E MOBIUS
Tech. Officer: HQ/J D BOHLIN, HQ/G L WITHBROE
CASE Category: 11 – ASTRONOMY

NAGW 5146 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6712**
SPECO ACTIVITY THE EXCITING NEWS FROM SPACE – NEW TECH CDZNTE DETECTORS FOR HIGH ENERGY FLARE SPEC
08/30/1996 – 09/30/1997 FY97: $0 Total: $138,000
Prin. Invest.: W VESTRAND
Tech. Officer: HQ/W J WAGNER, HQ/G L WITHBROE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5148 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6713**
TRANSPORT OF ENERGETIC IONS IN THE RING CURRENT DU RING GEOMAGNETIC STORMS
08/23/1996 – 09/30/1997 FY97: $0 Total: $56,700
Prin. Invest.: L KISTLER
Tech. Officer: HQ/J D BOHLIN, HQ/G L WITHBROE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5161 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6714**
ATMOSPHERIC IMPACT OF AGRICULTURE: INTEGRATION OF REMOTE SENSING AND BIOGEOCHEMICAL MODELS
09/09/1996 – 02/28/1998 FY97: $0 Total: $108,843
Prin. Invest.: C LI, W J EMERY
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 5251 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6715**
NET CARBON BALANCE FOR THE BRAZILIAN AMAZON
10/29/1996 – 07/31/1997 FY97: $84,490 Total: $84,490
Prin. Invest.: D L SKOLE
Tech. Officer: HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 5 26645 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6716**
DEFINITION PHASE OF THE DETECTOR SUBSYSTEM FOR THE COMPTEL
08/19/1981 – 09/30/1999 FY97: –$510,000 Total: $29,909,894
Prin. Invest.: J RYAN
Tech. Officer: GSFC/J NORRIS
CASE Category: 11 – ASTRONOMY

NAS 5 30744 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6717**
ELECTRON DRIFT EXPERIMENT & ACTIVE SPACECRAFT POTENTIAL
11/22/1989 – 05/07/1998 FY97: $350,000 Total: $13,334,128
Prin. Invest.: R TORBERT
Tech. Officer: GSFC/L CHRISTENSEN
CASE Category: 13 – PHYSICS

NAS 5 96063 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6718**
MODIS–EOS DEVELOPMENT OF ALGORITHMS
07/16/1996 – 06/01/2000 FY97: $243,000 Total: $258,000
Prin. Invest.: J CAMPBELL
Tech. Officer: GSFC/D TOLL, GSFC/B CONBOY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 1 184 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6719**
ANALYSIS AND PUBLICATION OF SELECTED NASA/GTE DACOM DATA
08/12/1993 – 11/30/1997 FY97: $21,659 Total: $64,111
Prin. Invest.: R C HARRISS, NONE
Tech. Officer: LARC/G W SACHSE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 5 226 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6720**
TROPICAL BIOCHEMISTRY & NASA LBA ECOLOGY SCIENCE S
09/10/1997 – 04/30/1998 FY97: $145,380 Total: $145,380
Prin. Invest.: D BARTLETT
Tech. Officer: GSFC/D WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30196 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6721**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/26/1993 – 02/28/1997 FY97: –$2 Total: $65,998
Prin. Invest.: W MCDOWELL
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30317 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6722**
GLOBAL CHANGE FELLOWSHIP AWARD
09/22/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: J D ABER
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 40030 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6723**
NGT–40030/UNIV NEW HAMPSHIRE/NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
05/29/1991 – 09/30/1997 FY97: –$12,854 Total: $1,133,946
Prin. Invest.: D S BARHETT
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51404 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6724**
GSRP
07/21/1995 – 08/20/1997 FY97: $0 Total: $44,000
Prin. Invest.: C KLETZING
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51660 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6725**
GRAD STUDENT RESEARCH PROGRAM
08/15/1996 – 08/31/1997 FY97: $0 Total: $22,000
Prin. Invest.: K LYNCH
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 5 30014 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6726**
CHEMISTRY AND DEPOSITION OF ATMOSPHERIC NITROGEN I ENVIRONMENT
10/14/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: R TALBOT
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30083 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6727**
THIRD YEAR FUNDING: "THE EFFECT OF PAST DISTURBAN NITROGEN SATURATION IN NORTHEASTERN U. S. FORESTS
09/10/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D ABER
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40001 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6728**
SPACE GRANT GLOBE WORKSHOP (NEW HAMPSHIRE SPACE GR
11/16/1996 – 12/31/1996 FY97: $18,841 Total: $18,841
Prin. Invest.: D S BARTLETT
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40010 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6729**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
01/30/1997 – 02/28/1998 FY97: $170,000 Total: $170,000
Prin. Invest.: D S BARTLETT
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50055 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6730**
TO INVESTIGATE FIELD ALIGNED AUROAL CURRENTS WITH FREJA SATELLITE
07/18/1997 – 08/14/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: C KLETZING
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50096 UNIVERSITY OF NEW HAMPSHIRE – DURHAM **6731**
INVESTIGATE MESOSPHERIC DUST AS A SOURCE FOR SUDDE GRADUATE STUDENT RESEARCHERS PROGRAM
08/21/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D LYNCH
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 11 – ASTRONOMY

NEW JERSEY

NAG 5 3088 NEW JERSEY INSTITUTE OF TECHNOLOGY **6732**
THERMAL AND NON–THERMAL ELECTRON POPULATIONS IN SOLAR BURSTS DEDUCED FROMHARD X–RAY AND MICROWAVE
10/05/1995 – 10/14/1997 FY97: $0 Total: $55,000
Prin. Invest.: H WANG
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3536 NEW JERSEY INSTITUTE OF TECHNOLOGY **6733**
THE STUDY OF QUIET SUN ATMOSPHERE AND MAGNETIC FIE SOHO AND BBSO OBSERVATIONS
12/14/1996 – 11/30/1997 FY97: $175,893 Total: $175,893
Prin. Invest.: D WANG
Tech. Officer: GSFC/A POLAND
CASE Category: 11 – ASTRONOMY

NAG 5 3663 NEW JERSEY INSTITUTE OF TECHNOLOGY **6734**
STUDY OF HARD X-RAY AND MICROWAVE PULSATIONS IN SO
12/11/1996 – 12/14/1997 FY97: $35,000 Total: $35,000
Prin. Invest.: H WANG
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 4919 NEW JERSEY INSTITUTE OF TECHNOLOGY **6735**
STUDIES OF SOLAR MAGNETIC FIELDS AND SOLAR ACTIVIT
07/08/1997 – 05/31/1998 FY97: $330,413 Total: $330,413
Prin. Invest.: D R GOODE
Tech. Officer: GSFC/W J WAGNER
CASE Category: 11 – ASTRONOMY

NAG 5 5144 NEW JERSEY INSTITUTE OF TECHNOLOGY **6736**
A STUDENT-DESIGNED EXPERIMENT TO ANALYZE PARTICLES COLLECTED DURING A NASA BALLOON FLIGHT
06/17/1997 – 12/17/1999 FY97: $104,516 Total: $104,516
Prin. Invest.:
Tech. Officer: GSFC/H NEEDLEMAN
CASE Category: 11 – ASTRONOMY

NAG 5 6055 NEW JERSEY INSTITUTE OF TECHNOLOGY **6737**
STUDY OF FILAMENT ERUPTIONS AND CORONAL MASS EJECT SOHO OBSERVATIONS
07/28/1997 – 06/30/1998 FY97: $76,000 Total: $76,000
Prin. Invest.: D WANG
Tech. Officer: GSFC/W WAGNER
CASE Category: 13 – PHYSICS

NAG 8 1114 NEW JERSEY INSTITUTE OF TECHNOLOGY **6738**
JOVE
02/01/1995 – 06/30/1998 FY97: $0 Total: $127,000
Prin. Invest.: S BAOHERI, A SOHN, M BIEBER
Tech. Officer: MSFC/F SIX
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4732 NEW JERSEY INSTITUTE OF TECHNOLOGY **6739**
YOHKOH, OVRO, AND BBSO OBSERVATIONS OF SOLAR FLARES
09/05/1995 – 08/30/1997 FY97: $0 Total: $74,722
Prin. Invest.: D H WANG
Tech. Officer: HQ/W WAGNER
CASE Category: 11 – ASTRONOMY

NAG 1 1698 PRINCETON UNIVERSITY **6740**
STOCHASTIC JITTER PREDICTION FOR SPACECRAFT IN THE PRESENCE OF MODELING UNCERTAINTIES
03/15/1995 – 03/14/1997 FY97: $0 Total: $84,365
Prin. Invest.: M P MAN
Tech. Officer: LARC/P G MAGHAMI
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 1 1843 PRINCETON UNIVERSITY **6741**
NEURAL NETWORKS FOR ON-LINE STRUCTURAL DYNAMICS AN D CONTROL ANALYSIS
06/11/1996 – 06/10/1998 FY97: $40,001 Total: $90,001
Prin. Invest.: M O PHAN
Tech. Officer: LARC/P G MAGHAMI
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 1 1920 PRINCETON UNIVERSITY **6742**
PRESTON PROBE CALIBRATION AT HIGH REYNOLDS NUMBER
05/14/1997 – 05/14/1998 FY97: $9,962 Total: $9,962
Prin. Invest.: A L SMITS
Tech. Officer: LARC/J B ANDERS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 561 PRINCETON UNIVERSITY **6743**
STUDIES IN ROTORCRAFT SYSTEM IDENTIFICATION
02/03/1989 – 09/30/1997 FY97: $49,758 Total: $335,867
Prin. Invest.: H C CURTISS, R M MCKILLUP
Tech. Officer: ARC/J W FLETCHER, ARC/M B TISCHLER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 988 PRINCETON UNIVERSITY **6744**
SOFIA SCIENCE WORKING GROUP
06/17/1995 – 06/30/1997 FY97: $0 Total: $27,039
Prin. Invest.: G R KNAPP
Tech. Officer: ARC/E F ERICKSON
CASE Category: 11 – ASTRONOMY

NAG 2 1029 PRINCETON UNIVERSITY **6745**
UNSTRUCTURED MESH GENERATION FOR COMPLEX CONFIGURA TIONS
03/06/1996 – 02/28/1998 FY97: $105,002 Total: $198,799
Prin. Invest.: T J BAKER, G A JAMESON
Tech. Officer: ARC/S E CLIFF, ARC/R A KENNELLY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1418 PRINCETON UNIVERSITY **6746**
COMBUSTION SYNTHESIS OF MATERIALS IN MICROGRAVITY
02/05/1993 – 12/31/1995 FY97: -$2,659 Total: $402,341
Prin. Invest.: I GLASSMAN
Tech. Officer: LERC/M CASTRO-CEDANO, LERC/T K GLASGOW
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1587 PRINCETON UNIVERSITY **6747**
A STUDY OF HOT SECTION CHEMICAL KINETICS FOR GAS T URBINE EMISSIONS PREDICTIONS
04/12/1994 – 03/13/1998 FY97: $56,000 Total: $632,150
Prin. Invest.: F DRYER, R YETTER
Tech. Officer: LERC/R NIEDZWIECKI
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1713 PRINCETON UNIVERSITY **6748**
STUDIES OF FLAME STRUCTURES IN MICROGRAVITY
03/28/1995 – 03/27/1998 FY97: $120,000 Total: $345,000
Prin. Invest.: C K LAW
Tech. Officer: LERC/K SACKSTEDER
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1762 PRINCETON UNIVERSITY **6749**
DYNAMICS OF HARD SPHERE COLLOIDAL DISPERSIONS
06/27/1995 – 06/26/1999 FY97: $270,000 Total: $950,000
Prin. Invest.: P M CHAIKIN
Tech. Officer: LERC/J S LING
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 616 PRINCETON UNIVERSITY **6750**
INTERSTELLAR MEDIUM ABSORPTION PROFILE SPCETROGRAPH (IMAPS)
01/01/1983 – 10/31/1997 FY97: $577,629 Total: $10,312,016
Prin. Invest.: E B JENKINS
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 – PHYSICS

NAG 5 1628 PRINCETON UNIVERSITY **6751**
APPLICATIONS OF SIR–C SYNTHETIC APERTURE RADAR TO HYDROLOGY
06/27/1991 – 06/30/1997 FY97: $0 Total: $348,802
Prin. Invest.: E WOOD
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 1629 PRINCETON UNIVERSITY **6752**
HST GTO PARTICIPATION
07/15/1991 – 08/31/1998 FY97: $0 Total: $883,432
Prin. Invest.: E J GROTH
Tech. Officer: GSFC/S SOBIESKI
CASE Category: 11 – ASTRONOMY

NAG 5 1875 PRINCETON UNIVERSITY **6753**
RADIO SOURCES AND THE CLUSTER ENVIRONMENT ATZ = 0
02/10/1992 – 12/14/1995 FY97: $0 Total: $35,000
Prin. Invest.: R A DALY
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 1940 PRINCETON UNIVERSITY **6754**
THEORETICAL STUDIES OF CRUSTAL DEFORMATION DUE TO CLACIAL, TIDAL, AND ATMOSPHERIC LOADS
03/12/1992 – 09/14/1997 FY97: $0 Total: $414,999
Prin. Invest.: W J MORGAN
Tech. Officer: GSFC/B G BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 2326 PRINCETON UNIVERSITY **6755**
SIMULATION OF BOREAL ECOSYSTEM CARBON AND WATER BU DGETS: SCALING FROM LOCAL TO REGIONAL EXTENTS
07/16/1993 – 07/31/1997 FY97: $5,000 Total: $20,000
Prin. Invest.: E WOOD
Tech. Officer: GSFC/F G HALL, GSFC/P J SELLERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2410 PRINCETON UNIVERSITY **6756**
STUDIES OF HIGH ENERGY PULSARS WITH EGRET
10/26/1993 – 01/31/1997 FY97: $0 Total: $147,986
Prin. Invest.: J H TAYLOR
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2412 PRINCETON UNIVERSITY **6757**
CHARACTERIZING THE LARGE ANGULAR SCALE ANISOTROPY IN THE COSMIC MICROWAVE BACKGROUND
10/28/1993 – 10/31/1996 FY97: $0 Total: $111,200
Prin. Invest.: L A PAGE
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2693 PRINCETON UNIVERSITY **6758**
THE NON–AXISYMMETRIC MILKY WAY
08/17/1994 – 08/31/1997 FY97: $0 Total: $45,000
Prin. Invest.: D N SPERGEL
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2697 PRINCETON UNIVERSITY **6759**
A SEARCH FOR A MASSIVE DARK HALO OF VERY LOW MASS STARS IN THE COBE/DIRBE FULL–SKY MAPS
08/17/1994 – 08/31/1996 FY97: $0 Total: $40,500
Prin. Invest.: D T WILKINSON
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2759 PRINCETON UNIVERSITY **6760**
THE UNIVERSE AT MODERATE REDSHIFT
10/21/1994 – 08/31/1997 FY97: $140,000 Total: $573,800
Prin. Invest.: J P OSTRIKER
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2796 PRINCETON UNIVERSITY **6761**
HYDRODYNAMIC STABILITY AND MAGNETIC RECONNECTION I N DISKS AND STARS
11/18/1994 – 01/31/1998 FY97: $0 Total: $315,100
Prin. Invest.: J GOODMAN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2858 PRINCETON UNIVERSITY **6762**
ASTROPHYSICS OF WARM MOLECULAR GAS: PHOTODISSOCIAT ION FRONTS AND SHOCKS
01/06/1995 – 02/28/1998 FY97: $0 Total: $237,000
Prin. Invest.: B T DRAINE
Tech. Officer: GSFC/D WEST
CASE Category: 21 – MATHEMATICS

NAG 5 3048 PRINCETON UNIVERSITY **6763**
RADIOMETER STUDIES FOR THE MICROWAVE ANISOTROPY PROBE
08/14/1995 – 06/30/1997 FY97: $0 Total: $108,000
Prin. Invest.: D T WILKSON
Tech. Officer: GSFC/C L BENNETT
CASE Category: 11 – ASTRONOMY

NAG 5 3151 PRINCETON UNIVERSITY **6764**
LASER ALTIMETRY OF FOLDS CAUSED BY LARGE EARTHQUAKES
01/17/1996 – 01/14/1997 FY97: $0 Total: $20,000
Prin. Invest.: J SUPPE
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3364 PRINCETON UNIVERSITY **6765**
ORIGIN AND EVOLUTION OF DUST IN ELLIPTICAL GALAXIE S
08/28/1996 – 08/31/1997 FY97: $0 Total: $41,000
Prin. Invest.: G R KNAPP
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3510 PRINCETON UNIVERSITY **6766**
ASSIMILATION OF SATELLITE COLOR OBSERVATIONS IN A GCM–ECOSYS-TEM MODEL
11/19/1996 – 05/31/1997 FY97: $100,000 Total: $100,000
Prin. Invest.: J SARMIENTO
Tech. Officer: GSFC/N MAYNARD
CASE Category: 33 – OCEANOGRAPHY

NAG 5 3521 PRINCETON UNIVERSITY **6767**
PROMPT RADIO COUNTERPARTS TO GAMMA–RAY BURSTS
12/23/1996 – 12/31/1997 FY97: $20,000 Total: $20,000
Prin. Invest.: S E THORSETT
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3803 PRINCETON UNIVERSITY **6768**
PULSAR TIMING PARAMETERS IN SUPPORT OF GRO
12/21/1996 – 12/14/1997 FY97: $35,439 Total: $35,439
Prin. Invest.: J H TAYLOR
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 4045 PRINCETON UNIVERSITY **6769**
SYSTEMATIC ASSESSMENT AND ANALYSIS OF TWO–DIMENSIO OZONE MODELS
03/17/1997 – 12/31/1997 FY97: $79,999 Total: $79,999
Prin. Invest.: D RABITZ
Tech. Officer: GSFC/J A KAYE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4701 PRINCETON UNIVERSITY **6770**
BIODIVERSITY OF ECOSYSTEM PROCESS: THEORY
06/06/1997 – 05/31/1998 FY97: $13,000 Total: $13,000
Prin. Invest.: S PACALA
Tech. Officer: GSFC/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6422 PRINCETON UNIVERSITY **6771**
INDIVIDUAL–BASED MODELS, AND SCALING FROM INDIVIDU
09/29/1997 – 07/31/1998 FY97: $110,000 Total: $110,000
Prin. Invest.: D A LEVIN
Tech. Officer: GSFC/D WICKLAND
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 969 PRINCETON UNIVERSITY **6772**
STUDIES IN ELECTROHYDRODYNAMICS
06/02/1993 – 09/30/1998 FY97: $53,748 Total: $840,111
Prin. Invest.: D A SAVILLE
Tech. Officer: MSFC/B C GUYNES
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 979 PRINCETON UNIVERSITY **6773**
CRYSTAL STUDY
08/10/1993 – 06/30/1997 FY97: $0 Total: $174,251
Prin. Invest.: M H HECHT
Tech. Officer: MSFC/D CARTER
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1157 PRINCETON UNIVERSITY **6774**
DIELECTRIC & ELECTROHYDRODYNAMIC PROPERTIES OF SUS PENSIONS
08/02/1995 – 10/21/1997 FY97: $0 Total: $150,000
Prin. Invest.: D A SAVILLE
Tech. Officer: MSFC/P RHODES
CASE Category: 13 – PHYSICS

NAG 8 1368 PRINCETON UNIVERSITY **6775**
ELECTROHYDRODYNAMICS OF SUSPENSIONS
05/30/1997 – 11/30/1997 FY97: $70,000 Total: $70,000
Prin. Invest.: D SAVILLE
Tech. Officer: MSFC/D NOENER
CASE Category: 12 – CHEMISTRY

NAGW 1482 PRINCETON UNIVERSITY **6776**
NEW RADIOMETERS FOR BALLOON BORNE 3K ISOTROPY EXPERIMENT
11/01/1988 – 11/30/1996 FY97: $0 Total: $506,878
Prin. Invest.: D T WILKENSON
Tech. Officer: HQ/G LEVY
CASE Category: 13 – PHYSICS

NAGW 2118 PRINCETON UNIVERSITY **6777**
DISTANT CLUSTERS OF GALAXIES
05/23/1990 – 11/30/1996 FY97: $0 Total: $413,719
Prin. Invest.: J E GUNN
Tech. Officer: HQ/G S KUTTER, HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 2173 PRINCETON UNIVERSITY **6778**
HUBBLE SPACE TELESCOPICS AND X–RAY STUDIES OF GRAV ITATIONAL LENSES
06/21/1990 – 12/31/1996 FY97: $0 Total: $407,385
Prin. Invest.: E L TURNER
Tech. Officer: HQ/G S KUTTER, HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 3952 PRINCETON UNIVERSITY **6779**
"SYSTEMATIC ASSESSMENT & ANALYSIS OF TWO–DIMENSION AL STRATOSPHERIC OZONE MODELS"
04/19/1994 – 06/30/1997 FY97: $0 Total: $240,001
Prin. Invest.: H ROBITZ
Tech. Officer: HQ/J A KAYE, HQ/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4688 PRINCETON UNIVERSITY **6780**
INDIVIDUAL–BASED MODELS, AND SCALING FROM INDIVIDU ALS TO LANGSCAPES
08/04/1995 – 07/31/1998 FY97: $0 Total: $205,000
Prin. Invest.: S A LEVIN
Tech. Officer: HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 5 30110 PRINCETON UNIVERSITY **6781**
SPACE TELESCOPE IMAGING SPECTROGRAPH PROGRAM SUPPORT
06/17/1987 – 09/30/2001 FY97: $220,000 Total: $666,000
Prin. Invest.: E JENKINS
Tech. Officer: GSFC/D VITAGLINO
CASE Category: 11 – ASTRONOMY

NAS 5 31719 PRINCETON UNIVERSITY **6782**
EOS INVESTIGATION "GLOBAL HYDROLOGIC PROCESSES & CLIMATE
10/22/1991 – 01/31/1998 FY97: $120,000 Total: $1,086,500
Prin. Invest.: E WOOD
Tech. Officer: GSFC/W LAU
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 5 96021 PRINCETON UNIVERSITY **6783**
MICROWAVE ANISOTROPY PROBE INVESTIGATION (PHASE I DEFINITION STUDY)
06/28/1996 – 11/30/1997 FY97: $3,703,000 Total: $4,503,000
Prin. Invest.: D WILKINSON
Tech. Officer: GSFC/R CUDDAPAH
CASE Category: 11 – ASTRONOMY

NAS 9 19324 PRINCETON UNIVERSITY **6784**
DEFINITION PHASE OF NEUROLAB/STRESS OF SPACEFLIGHT : EFFECTS ON LEARNING
12/22/1994 – 10/22/1995 FY97: –$100 Total: $80,306
Prin. Invest.: T SHORES, R J SERVATIOUS
Tech. Officer: GSFC/S SAWYER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAS 9 19519 PRINCETON UNIVERSITY **6785**
LIFE SCIENCES FLIGHT EXPERIMENT–STRESS OF SPACE– FLIGHT: EFFECTS ON LEARNING
12/18/1995 – 12/18/1999 FY97: $150,000 Total: $513,000
Prin. Invest.: T J SHORS, PH.D
Tech. Officer: JSC/S SAWYER
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 3 487 PRINCETON UNIVERSITY **6786**
SCIENTIFIC SUPPORT FOR A SPACE SHUTTLE DROPLET BUR NING EXPERIMENT
07/15/1996 – 07/10/1999 FY97: $120,000 Total: $321,235
Prin. Invest.: F L DRYER
Tech. Officer: LERC/H D ROSS
CASE Category: 46 – MECHANICAL ENGR

NGT 30234 PRINCETON UNIVERSITY **6787**
GLOBAL CHANGE FELLOWSHIP AWARD
10/06/1994 – 12/31/1996 FY97: $0 Total: $40,240
Prin. Invest.: V RAMASWAMY
Tech. Officer: HQ/J A KAYE, HQ/G ASRAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 30264 PRINCETON UNIVERSITY **6788**
GLOBAL CHANGE FELLOWSHIP AWARD
09/21/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: S W PASCALA
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 33 – OCEANOGRAPHY

NGT 30288 PRINCETON UNIVERSITY **6789**
GLOBAL CHANGE FELLOWSHIP AWARD
10/06/1994 – 01/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: S G PHILANDER
Tech. Officer: HQ/J STHEON, HQ/G ASRAR
CASE Category: 33 – OCEANOGRAPHY

NGT 51073 PRINCETON UNIVERSITY **6790**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/24/1993 – 09/30/1996 FY97: $0 Total: $66,000
Prin. Invest.: D A SAVILLE
Tech. Officer: HQ/B CARPENTER
CASE Category: 43 – CHEMICAL ENGR

NGT 51140 PRINCETON UNIVERSITY **6791**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/29/1993 – 08/31/1996 FY97: –$9,334 Total: $56,666
Prin. Invest.: C GROSS
Tech. Officer: HQ/R WHITE
CASE Category: 56 – MEDICL

NGT 51343 PRINCETON UNIVERSITY **6792**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/08/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: D A SAVILLE
Tech. Officer: HQ/G A LESANE
CASE Category: 43 – CHEMICAL ENGR

NGT 3 52301 PRINCETON UNIVERSITY **6793**
GRADUATE STUDENT RESEARCH PROGRAM GRADUATE STUDENT RESEARCH PROGRAM
07/01/1995 – 09/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: W B RUSSEL
Tech. Officer: LERC/L SHAW
CASE Category: 43 – CHEMICAL ENGR

NGT 5 56 PRINCETON UNIVERSITY **6794**
GSAP TRAINING GRANT FOR THEODORE ENDENY TITLE: NON. SOURCE POLUTION MODELING USING REMOTE
07/25/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: E WOOD
Tech. Officer: GSFC/E ENGMAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30009 PRINCETON UNIVERSITY **6795**
ASSESSMENT OF THE ROLE OF WATER VAPOR FEEDBACK IN VARI-ABILITY USING THE GFDL COUPLED OCEAN–ATMOSPHER
10/14/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: D MANABE
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30015 PRINCETON UNIVERSITY **6796**
ANALYSIS OF THE FACTORS DETERMINING THE DISTRIBUTI TROPO-SPHERE
10/23/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: H LEVY, 11
Tech. Officer: GSFC/G ASRAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 5 50033 PRINCETON UNIVERSITY **6797**
MEASURING ANISOTROPY IN THE COSMIC MICROWAVE BACKG SIS RECEIVERS
08/04/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: L PAGE/MILLER
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 50065 PRINCETON UNIVERSITY **6798**
STUDY OF PLASMA ACCLERATION AND HEATING DURING DRI TION IN A MAGNETOHYDRODYNAMIC LABORATORY EXPERIME
08/26/1997 – 07/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: M YAMADA
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 90041 PRINCETON UNIVERSITY **6799**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
02/03/1997 – 08/14/1997 FY97: $4,810 Total: $4,810
Prin. Invest.: P BOGUCK–CHATMAN
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 995 ROWAN COLLEGE OF NEW JERSEY **6800**
JOVE
11/19/1993 – 05/30/1998 FY97: $0 Total: $83,640
Prin. Invest.: V BROWN
Tech. Officer: MSFC/F SIX
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 1 1559 RUTGERS STATE UNIVERSITY – PISCATAWAY **6801**
STOCHASTIC METHODS FOR AIRCRAFT DESIGN MY 1/3
02/14/1994 – 09/30/1997 FY97: $138,810 Total: $610,110
Prin. Invest.: R B PELZ, M M OGOT
Tech. Officer: LARC/D H RUDY, LARC/M D SALOS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1748 RUTGERS STATE UNIVERSITY – PISCATAWAY **6802**
POLAR CLOUD PARAMETERS RETRIEVED FROM HIRS & AVH RR DATA: ALGORITHM DEVELOPMENT
08/28/1995 – 08/31/1998 FY97: $24,875 Total: $65,513
Prin. Invest.: J A FRANCIS
Tech. Officer: LARC/B A BAUM
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 3 1453 RUTGERS STATE UNIVERSITY – PISCATAWAY **6803**
OSCILLATORY THERMOCAPILLARY CONVECTION
02/11/1993 – 10/31/1997 FY97: $0 Total: $244,129
Prin. Invest.: A ZEBIB
Tech. Officer: LERC/R L THOMPSON
CASE Category: 46 – MECHANICAL ENGR

NAG 5 2803 RUTGERS STATE UNIVERSITY – PISCATAWAY **6804**
DYNAMICS AND EVOLUTION OF GALAXIES
12/01/1994 – 12/14/1997 FY97: $105,000 Total: $315,000
Prin. Invest.: D MERRITT
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3158 RUTGERS STATE UNIVERSITY – PISCATAWAY **6805**
GUARANTEED TIME OBSERVER: SPACE TELESCOPE IMAGING SPECTROGRAPH
01/23/1996 – 09/30/1997 FY97: $155,000 Total: $230,000
Prin. Invest.: C L JOSEPH
Tech. Officer: GSFC/KRUEGER
CASE Category: 11 – ASTRONOMY

NAG 5 3432 RUTGERS STATE UNIVERSITY – PISCATAWAY **6806**
DETERMINING THE HUBBLE CONSTANT USING X–RAY, OPTIC IONS OF CLUSTER
10/30/1996 – 09/30/1997 FY97: $133,604 Total: $133,604
Prin. Invest.: J P HUGHES
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3989 RUTGERS STATE UNIVERSITY – PISCATAWAY **6807**
TEST & EVALUATION OF UV DETECTORS
02/27/1997 – 02/28/1998 FY97: $42,000 Total: $42,000
Prin. Invest.: D L JOSEPH
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 4327 RUTGERS STATE UNIVERSITY – PISCATAWAY **6808**
ISOTOPIC INVESTIGATIONS OF EXTRATERRESTRIAL MATERI
04/11/1997 – 02/28/1998 FY97: $65,000 Total: $65,000
Prin. Invest.: D F HERZOG
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4472 RUTGERS STATE UNIVERSITY – PISCATAWAY **6809**
SIMULATION AND ANALYSIS OF METEORITIC MATERIAL
06/17/1997 – 02/28/1998 FY97: $125,537 Total: $125,537
Prin. Invest.: D HEWINS
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4597 RUTGERS STATE UNIVERSITY – PISCATAWAY **6810**
TRANSIENT HEATING IN THE SOLAR ACCRETION DISK
05/15/1997 – 02/28/1998 FY97: $45,000 Total: $45,000
Prin. Invest.: D H HEWINS
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4794 RUTGERS STATE UNIVERSITY – PISCATAWAY **6811**
DETERMINING THE ABUNDANCES OF THE LMC FROM SUPERNO
06/17/1997 – 06/30/1998 FY97: $45,600 Total: $45,600
Prin. Invest.: J HUGHES
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 4871 RUTGERS STATE UNIVERSITY – PISCATAWAY **6812**
ASCA STUDY OF A CRAB LIKE SUPERNOVA REMNANT; ASCA OBSERVATIONS OF SYNYAEV–ZEL' DOVICH CLUSTERS
07/14/1997 – 01/31/1998 FY97: $79,123 Total: $79,123
Prin. Invest.: J HUGHES
Tech. Officer: GSFC/N WHITE
CASE Category: 12 – CHEMISTRY

NAG 5 4908 RUTGERS STATE UNIVERSITY – PISCATAWAY **6813**
GENERATION OF 18–YEAR TOVS PATHFINDER DATASET FOR
06/20/1997 – 09/30/1998 FY97: $111,408 Total: $111,408
Prin. Invest.: D J FRANCIS
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6011 RUTGERS STATE UNIVERSITY – PISCATAWAY **6814**
"NJ–NSCORT FOR BIOREGENERATIVE LIFE SUPPORT SYSTEM
07/23/1997 – 04/30/1998 FY97: $1,000,000 Total: $1,000,000
Prin. Invest.: H JANES
Tech. Officer: GSFC/G FOGLEMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 6186 RUTGERS STATE UNIVERSITY – PISCATAWAY **6815**
EFFECTS OF RADIATION ON DESORPTION OF SODIUM FROM RELATION TO ORIGINS OF SODIUM IN THE ATMOSPHERES O
07/30/1997 – 09/14/1998 FY97: $53,000 Total: $53,000
Prin. Invest.: D MADEY
Tech. Officer: GSFC/S HOWARD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 975 RUTGERS STATE UNIVERSITY – PISCATAWAY **6816**
THERMAL OPTIMIZATION OF GROWTH AND QUALITY OF PROTEIN CRYSTALS
06/21/1993 – 09/22/1997 FY97: $40,833 Total: $419,325
Prin. Invest.: D ARNOLD, E ARNOLD
Tech. Officer: MSFC/M L PUSEY
CASE Category: 12 – CHEMISTRY

NAGW 2263 RUTGERS STATE UNIVERSITY – PISCATAWAY **6817**
TRANSIENT HEATING IN THE SOLAR ACCRETION DISK
02/26/1991 – 10/31/1996 FY97: $0 Total: $275,000
Prin. Invest.: R H HEWINS
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3499 RUTGERS STATE UNIVERSITY – PISCATAWAY **6818**
COSMOGENIC RADIONUCLIDES IN EXTRATERRESTRIAL MATERIALS
05/12/1993 – 09/30/1997 FY97: $0 Total: $235,186
Prin. Invest.: G F HERZOG
Tech. Officer: HQ/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3568 RUTGERS STATE UNIVERSITY – PISCATAWAY **6819**
KINEMATICS OF NORTHERN HEMISPHERE SNOW COVER AND R ESULTANT IMPACTS ON SURFACE ALBEDO
05/13/1993 – 05/31/1997 FY97: $0 Total: $251,852
Prin. Invest.: D A ROBINSON
Tech. Officer: HQ/R H THOMAS, HQ/R A SCHIFFER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4900 RUTGERS STATE UNIVERSITY – PISCATAWAY **6820**
ADVANCED TECHNOLOGY REPLACEMENTS (AT–MCPS) FOR GLA SS MICROCHANNEL PLATES
02/05/1996 – 08/31/1997 FY97: $0 Total: $153,000
Prin. Invest.: C JOSEPH
Tech. Officer: HQ/R V STACHNIK
CASE Category: 13 – PHYSICS

NAGW 5045 RUTGERS STATE UNIVERSITY – PISCATAWAY **6821**
ADVANCED TECHNOLOGY REPLACEMENTS FOR GLASS MICROCH ANNEL PLATES
05/09/1996 – 01/31/1997 FY97: $0 Total: $42,000
Prin. Invest.: D L JOSEPH
Tech. Officer: HQ/E J WEILER
CASE Category: 13 – PHYSICS

NAGW 5226 RUTGERS STATE UNIVERSITY – PISCATAWAY **6822**
RESEARCH (BIDIRECTIONAL)
10/07/1996 – 05/31/1997 FY97: $40,000 Total: $40,000
Prin. Invest.: R AVISSAR
Tech. Officer: HQ/A C JANETOS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 5232 RUTGERS STATE UNIVERSITY – PISCATAWAY **6823**
EFFECTS OF RADIATION ON DESORPTION OF SODIUM FROM MINERAL SURFACES: RELATIONTO ORIGINS OF SODIUM
10/04/1996 – 09/30/1997 FY97: $50,000 Total: $50,000
Prin. Invest.: T E MADEY
Tech. Officer: HQ/J BERGSTRALH, HQ/H C BRINTON
CASE Category: 11 – ASTRONOMY

NCC 5 229 RUTGERS STATE UNIVERSITY – PISCATAWAY **6824**
COOPERATIVE RESEARCH IN REGIONAL AND GLOBAL CLIMAT
08/19/1997 – 08/14/1998 FY97: $400,000 Total: $400,000
Prin. Invest.: R AVISSAR
Tech. Officer: GSFC/R B STOTHERS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 30164 RUTGERS STATE UNIVERSITY – PISCATAWAY **6825**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/26/1993 – 01/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: D A ROBINSON
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30351 RUTGERS STATE UNIVERSITY – PISCATAWAY **6826**
GLOBAL CHANGE FELLOWSHIP PROGRAM
09/05/1995 – 08/31/1998 FY97: $0 Total: $44,000
Prin. Invest.: R G LATHROP, JR.
Tech. Officer: HQ/G ASRAR, HQ/M BALTUCK
CASE Category: 33 – OCEANOGRAPHY

NGT 5 30062 RUTGERS STATE UNIVERSITY – PISCATAWAY **6827**
ANTHROPOGENIC PERTURBATIONS TO THE CARBON CYCLE FR ESTIMATED FROM NEW HISTORICAL LAND USE DATA
09/10/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D ROBINSON
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30100 RUTGERS STATE UNIVERSITY – PISCATAWAY **6828**
EFFECTS OF THE PHRAGMITES AUSTRALIS INVASION ON NI BRACKISH TIDAL MARSH OF THE DELAWARE RIVER USA/L.
09/15/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: R G LATHROP,JR.
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 1 1908 RUTGERS STATE UNIV OF NJ NEW BRUNSWICK **6829**
EVALUATION AND DEVELOPMENT OF NIGHTTIME CLOUD BASE ALGORITHMS FOR CERS
03/07/1997 – 03/06/1998 FY97: $42,674 Total: $42,674
Prin. Invest.: J A FRANCIS
Tech. Officer: LARC/J FRANCIS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 668 RUTGERS STATE UNIV OF NJ NEW BRUNSWICK **6830**
CONTENT ADDRESSABLE MEMORY PROJECT
08/13/1990 – 10/31/1996 FY97: $0 Total: $1,542,501
Prin. Invest.: G M HOMSY, J S HALL
Tech. Officer: ARC/S LAU, ARC/D MCKELLAR
CASE Category: 22 – COMPUTER SCIENCE

NAG 2 829 RUTGERS STATE UNIV OF NJ NEW BRUNSWICK **6831**
FEATRUE ISOLATION & QUANTIFICATION OF EVOLVING DAT ASETS
03/25/1993 – 01/31/1996 FY97: $0 Total: $179,447
Prin. Invest.: D SILVER
Tech. Officer: ARC/T A LASINSKI
CASE Category: 22 – COMPUTER SCIENCE

NAGW 3391 RUTGERS STATE UNIV OF NJ NEW BRUNSWICK **6832**
SIMULATION AND ANALYSIS OF METEORIC MATERIALS
03/19/1993 – 02/28/1998 FY97: $0 Total: $426,030
Prin. Invest.: R H HEWINS
Tech. Officer: HQ/H C BRINTON
CASE Category: 13 – PHYSICS

NAGW 4760 RUTGERS STATE UNIV OF NJ NEW BRUNSWICK **6833**
GENERATION OF AN 18–YEAR TOVS PATHFINDER DATA SET FOR THE ARCTIC BASIN
10/05/1995 – 12/31/1997 FY97: $0 Total: $360,066
Prin. Invest.: J FRANCIS
Tech. Officer: HQ/M E MAIDEN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 5003 RUTGERS STATE UNIV OF NJ NEW BRUNSWICK **6834**
NJ–NSCORT FOR BIOREGENETIVE LIFE SUPPORT SYSTEM
05/16/1996 – 09/30/1997 FY97: $0 Total: $1,000,000
Prin. Invest.: H W JAMES, PH.D.
Tech. Officer: HQ/R WHITE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 2 802 RUTGERS STATE UNIV OF NJ NEW BRUNSWICK **6835**
PROTOCOL AND RECORD FOR SCIENTIFIC MODEL DEVELOPM ENT
05/20/1993 – 12/31/1996 FY97: –$1 Total: $186,267
Prin. Invest.: T ELLMAN
Tech. Officer: ARC/S LAU, ARC/D E THOMPSON
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 3715 STEVENS INSTITUTE OF TECHNOLOGY **6836**
STEVENS TECHNICAL ENRICHMENT PROGRAM–MIDDLE SCHOOL
02/03/1997 – 01/31/1998 FY97: $85,750 Total: $85,750
Prin. Invest.: T G WILLIAMS
Tech. Officer: GSFC/M MATEU
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 4978 STEVENS INSTITUTE OF TECHNOLOGY **6837**
ELECTRON COLLISIONS WITH FREE RADICALS
07/18/1997 – 06/30/1998 FY97: $49,800 Total: $49,800
Prin. Invest.: D BECKER
Tech. Officer: GSFC/S HOWARD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 6116 STEVENS INSTITUTE OF TECHNOLOGY **6838**
ACOUSTIC BONE MASS AND TRABECULAR
09/05/1997 – 04/30/1998 FY97: $58,493 Total: $58,493
Prin. Invest.: D DONSKOY
Tech. Officer: HQ/B SIEGEL
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 8 1102 STEVENS INSTITUTE OF TECHNOLOGY **6839**
JOVE
10/21/1994 – 05/31/1997 FY97: $0 Total: $87,000
Prin. Invest.: W SCHWARZ, E CESMEBASI
Tech. Officer: MSFC/F SIX
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 1877 STEVENS INSTITUTE OF TECHNOLOGY **6840**
CAMDEN MIDDLE SCHOOL PROGRAM MATHEMATICS SCIENCE A ND COMPUTER PROJECT
02/07/1990 – 01/31/1997 FY97: $0 Total: $450,201
Prin. Invest.: T G WILLIAMS
Tech. Officer: HQ/B L WHITE, HQ/A LUDI
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAGW 4586 STEVENS INSTITUTE OF TECHNOLOGY **6841**
ACOUSTIC BONE MASS AND TRABECULAR PROPERTY MEASURE MENTS
07/07/1995 – 04/30/1997 FY97: $0 Total: $207,196
Prin. Invest.: D M DONSKOY
Tech. Officer: HQ/G SCHMIDT
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 5 224 STEVENS INSTITUTE OF TECHNOLOGY **6842**
FUNDING FOR 1997/98 STEVENS TECHNICAL ENRICHMENT P
07/24/1997 – 11/30/1997 FY97: $138,048 Total: $138,048
Prin. Invest.: T WILLIAMS
Tech. Officer: GSFC/D MENCHAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NGT 40032 STEVENS INSTITUTE OF TECHNOLOGY **6843**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
06/05/1991 – 02/28/1997 FY97: $0 Total: $1,001,000
Prin. Invest.: D THANGAM
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40041 STEVENS INSTITUTE OF TECHNOLOGY **6844**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA
01/24/1997 – 02/28/1998 FY97: $170,000 Total: $170,000
Prin. Invest.: S THANGAM
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAS 9 17276 UNIV OF MEDICINE AND DENTISTRY **6845**
STUDY–PROTEIN METABOLISM DURING SPACE FL
11/01/1984 – 12/31/1995 FY97: $0 Total: $1,979,220
Prin. Invest.: P STEIN
Tech. Officer: JSC/K NEWKIRK
CASE Category: 56 – MEDICL

NAS 9 18775 UNIV OF MEDICINE AND DENTISTRY **6846**
MEASUREMENT OF ENERGY EXPENDITURE DURING SPACE FLT
10/09/1992 – 09/15/1997 FY97: $319,521 Total: $907,752
Prin. Invest.: T P STEIN
Tech. Officer: JSC/J VILLARREAL
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 2 1001 UNIV OF MEDICINE AND DENTISTRY **6847**
EFFECT OF GRAVITY ON ENERGY EXPENDITURE BY RATS
07/24/1997 – 04/30/1998 FY97: $70,000 Total: $70,000
Prin. Invest.: T P STEIN
Tech. Officer: ARC/C E WADE, ARC/S STANLEY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 950 UNIV. OF MEDICINE & DENTISTRY–NJ. **6848**
REDUCED GRAVITY: EFFECTS IN THE DEVELOPING NERVOU S SYSTEM (DEFINITION PHASE)
12/16/1994 – 11/30/1997 FY97: $91,117 Total: $287,231
Prin. Invest.: R S KOWAKOWSKI
Tech. Officer: ARC/W E HINDS, ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAS 9 19409 UNIV. OF MEDICINE & DENTISTRY–NJ. **6849**
PROTEIN METABOLISM DURING LONG TERM SPACE FLIGHTS
11/13/1995 – 03/31/1998 FY97: $100,000 Total: $319,000
Prin. Invest.: P T STEIN
Tech. Officer: JSC/J VILLARREAL
CASE Category: 56 – MEDICL

NEW MEXICO

NAG 4 139 NEW MEXICO HIGHLANDS UNIVERSITY **6850**
A NON–INTRUSIVE AIRSPEED INDICATOR FOR TRANSONIC A IRCRAFT APPLICATION
09/17/1997 – 09/09/1998 FY97: $95,500 Total: $95,500
Prin. Invest.: J P CLARK
Tech. Officer: DFRC/T MOSE, DFRC/E COX
CASE Category: 22 – COMPUTER SCIENCE

NAG 8 196 NEW MEXICO HIGHLANDS UNIVERSITY **6851**
JOINT VENTURE
04/29/1991 – 08/31/1996 FY97: $0 Total: $119,500
Prin. Invest.: B TAYLOR, B CLARK
Tech. Officer: MSFC/F SIX, MSFC/C R CHAPPELL
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1057 NEW MEXICO HIGHLANDS UNIVERSITY **6852**
SYNTESIS AND PREPARATION OF PHTHALOCYANINE THIN FILMS FOR NONLINEAR OPTICS
05/26/1994 – 10/31/1996 FY97: $0 Total: $298,340
Prin. Invest.: R D CLARK
Tech. Officer: MSFC/B G PENN
CASE Category: 12 – CHEMISTRY

NAG 8 1288 NEW MEXICO HIGHLANDS UNIVERSITY **6853**
R/S INVESTIGATION OF REVERSE SATURABLE ABSORPTION OF PHTHA-LORYANINES FOR OPTICAL LIMITING APPLICA.
10/25/1996 – 10/24/1997 FY97: $99,910 Total: $99,910
Prin. Invest.: R D CLARK, D SANGHADASA
Tech. Officer: MSFC/B G PENN, MSFC/A D SHIELDS
CASE Category: 13 – PHYSICS

NAGW 4078 NEW MEXICO HIGHLANDS UNIVERSITY **6854**
ALLIANCE FOR NONLINEAR OPTICS
07/14/1994 – 05/30/1997 FY97: $0 Total: $1,799,969
Prin. Invest.: R D CLARK
Tech. Officer: HQ/B L WHITE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG10 161 NEW MEXICO HIGHLANDS UNIVERSITY **6855**
FUZZY MICRO CONTROLLERS FOR CELSS APPLICATIONS
06/05/1995 – 06/08/1998 FY97: $100,000 Total: $372,899
Prin. Invest.: B TAYLOR
Tech. Officer: KSC/J SAGER
CASE Category: 59 – LIFE SCIENCE, OTHER

NGT 90070 NEW MEXICO HIGHLANDS UNIVERSITY **6856**
NGT–90070/NEW MEXICO HIGHLANDS UNIV/INTEGRATED APPROACH TO ENGINEERING EDUCATION IN A MINORITY
09/29/1992 – 12/31/1996 FY97: $154,167 Total: $823,071
Prin. Invest.: H W TAYLOR
Tech. Officer: DFRC/E COX
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90237 NEW MEXICO HIGHLANDS UNIVERSITY **6857**
NGT–90237/NEW MEXICO HIGHLANDS UNIV/NATIVE AMER. S CIENCE & TECH EDUCATION CONSORTIUM
10/19/1993 – 08/30/1996 FY97: $0 Total: $2,090,965
Prin. Invest.: G SANCHEZ
Tech. Officer: HQ/D RUSSELL
CASE Category: 76 – SOCIOLOGY

NGT 90284 NEW MEXICO HIGHLANDS UNIVERSITY **6858**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
09/21/1995 – 08/14/1996 FY97: $0 Total: $60,000
Prin. Invest.: B TAYLOR
Tech. Officer: HQ/D RUSSELL
CASE Category: 49 – ENGINEERING, OTHER

NGT 5 90042 NEW MEXICO HIGHLANDS UNIVERSITY **6859**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH
02/11/1997 – 08/14/1997 FY97: $88,000 Total: $88,000
Prin. Invest.: B TAYLOER
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90069 NEW MEXICO HIGHLANDS UNIVERSITY **6860**
AMERICAN INDIAN SCIENCE AND TECHNOLOGY EDUCATION C
04/04/1997 – 11/30/1997 FY97: $1,400,822 Total: $1,400,822
Prin. Invest.: J C'DE BACA
Tech. Officer: GSFC/M STOUYSENBERGER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 2847 NEW MEXICO INSTITUTE OF MINING & TECH **6861**
RADIATIVE PROCESSES AND TRACE GASES IN THE MIDDLE ATMOSPHERE
12/21/1994 – 01/14/1998 FY97: $0 Total: $35,000
Prin. Invest.: K MINSCHWANER
Tech. Officer: GSFC/C JACKMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4139 NEW MEXICO INSTITUTE OF MINING & TECH **6862**
OBSERVATIONS & ANALYSIS OF ATMOSPHERIC HYDROXYL
03/17/1997 – 03/14/1998 FY97: $41,788 Total: $41,788
Prin. Invest.: K MINSCHWANNER
Tech. Officer: GSFC/M J KURYLO
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 1123 NEW MEXICO INSTITUTE OF MINING & TECH **6863**
ANALYSIS OF TOGA COARE LIGHTNING DATA
02/22/1995 – 09/16/1998 FY97: $0 Total: $65,968
Prin. Invest.: M BROOK
Tech. Officer: MSFC/R J BLAKESLEE, MSFC/H J CHRISTIAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4887 NEW MEXICO INSTITUTE OF MINING & TECH **6864**
OBSERVATIONS AND ANALYSIS OF ATMOSPHERIC HYDROXYL
12/13/1995 – 09/30/1997 FY97: $0 Total: $41,972
Prin. Invest.: K MINSCHWANER
Tech. Officer: HQ/M J KURYLO
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG10 188 NEW MEXICO INSTITUTE OF MINING & TECH **6865**
COMPARISON OF OBSERVATIONS FROMKSC LDAR SYSTEM WITH RADAR OBSERVATIONS FOR IDENTIFICATION OF MICROLO
03/26/1996 – 01/30/1998 FY97: $0 Total: $20,667
Prin. Invest.: W RISON
Tech. Officer: KSC/L MAIER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 364 NEW MEXICO INSTITUTE OF MINING & TECH **6866**
"EVOLUTION OF PHOTON AND PARTICLE SPECTRA IN COMPA LUMINOUS OBJECTS"
10/01/1987 – 08/31/1996 FY97: –$3,275 Total: $110,725
Prin. Invest.: J A EILEK
Tech. Officer: ARC/F C WITTEBORN
CASE Category: 11 – ASTRONOMY

NAG 1 1868 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6867**
ACTIVE CONTROL OF AERODYNAMIC NOISE SOURCES MY 1/3
09/20/1996 – 09/30/1998 FY97: $91,121 Total: $187,416
Prin. Invest.: G A REYNOLDS, NONE
Tech. Officer: LARC/R W WLEZIEN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 6007 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6868**
THEORETICAL & OBSERVATIONAL STUDIES OF SOLAR & EXT RA SOLAR PLANETARY ATMOSPHERES
10/16/1996 – 06/30/1998 FY97: $191,875 Total: $191,875
Prin. Invest.: M MARLEY
Tech. Officer: ARC/C P MCKAY, ARC/A J HATCH
CASE Category: 11 – ASTRONOMY

NAG 5 1491 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6869**
TELEMETERING AND TELECOMMUNICATIONS RESEARCH
12/10/1990 – 06/30/1998 FY97: $500,000 Total: $5,410,221
Prin. Invest.: F CARDEN, S HORAN
Tech. Officer: GSFC/D WILSON, GSFC/W H MILLER
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 1516 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6870**
OPTICAL AND GAMMA RAY STUDY OF GRO PHASE I TARGETS
04/17/1991 – 02/28/1998 FY97: $0 Total: $230,923
Prin. Invest.: B J MCNAMARA
Tech. Officer: GSFC/J P NORRIS, GSFC/D A KNIFFEN
CASE Category: 11 – ASTRONOMY

NAG 5 2426 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6871**
A NEW APPROACH TO MODELLING THE FAR–INFRARED RADIA TION IN GALAXIES
11/10/1993 – 11/14/1997 FY97: $0 Total: $143,322
Prin. Invest.: R A WALTERBOS
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2702 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6872**
ROSAT IMAGING OF INTER–PLANETARY NETWORK GAMMA – RAY BURST
08/24/1994 – 02/29/1996 FY97: –$1,000 Total: $13,000
Prin. Invest.: B MCNAMARA
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 3114 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6873**
THE BEHAVIOR OF GAMMA–RAY BURSTS IN THE 7–14 KEV BANDPASS: FLUENCES, STRUCTURE, DURATION, AND DELAY
10/19/1995 – 10/31/1997 FY97: $0 Total: $40,000
Prin. Invest.: T E HARRISON, NONE
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3304 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6874**
ANALYSIS OF DATA ON THE ENERGY SPECTRUM AND CHARGE AND ISO-TOPIC COMPOSITION OF GALACTIC COSMIC.....
07/24/1996 – 07/31/1997 FY97: $49,655 Total: $98,837
Prin. Invest.: W R WEBBER
Tech. Officer: GSFC/T T VON ROSENVINGE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 3312 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6875**
X–RAY PROPERTIES OF RADIO GALAXIES AND THE FR I/II DIVISION
07/31/1996 – 01/31/1998 FY97: $0 Total: $9,729
Prin. Invest.: M LEDLOW
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 3362 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6876**
STUDIES OF ASTROPHYSICAL PLASMAS IN CLUSTERS OF GA LAXIES
08/28/1996 – 06/30/1997 FY97: $0 Total: $148,900
Prin. Invest.: J O BURNS
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3410 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6877**
ASCA OBSERVATIONS OF ROSAT ALL SKY SURVEY SELECTED GROUPS
09/11/1996 – 03/14/1998 FY97: $0 Total: $11,750
Prin. Invest.: J BURNS
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3517 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6878**
THE BEHAVIOR OF GAMMA–RAY BURSTS IN THE 7–14 KEV B STRUCTURE, DURATIONS, AND DELAYS
11/27/1996 – 11/30/1997 FY97: $30,000 Total: $30,000
Prin. Invest.: T E HARRISON
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3698 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6879**
THE CONTINUATION OF THE BCN GLOBAL GRB RAPID RESPO
01/22/1997 – 01/31/1998 FY97: $34,874 Total: $34,874
Prin. Invest.: B J MCNAMARA
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3842 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6880**
MODELLING X-RAY CLUSTERS: EVOLUTION AND REALISTIC
02/25/1997 – 02/28/1998 FY97: $95,015 Total: $95,015
Prin. Invest.: A KLYPIN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4402 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6881**
MONITORING BASTE GAMMA-RAY BURSTS FOR POST-BURST, X-RAY EMISSION
05/01/1997 – 05/14/1998 FY97: $39,648 Total: $39,648
Prin. Invest.: T HARRISON
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4757 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6882**
HRI OBSERVATIONS OF DISTANT ABELL CLUSTERS
06/23/1997 – 06/30/1998 FY97: $10,000 Total: $10,000
Prin. Invest.: J O BURNS
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 4987 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6883**
MODEL ATMOSPHERES AND SPECTRA FOR EXTRASOLAR GIANT
06/26/1997 – 06/14/1998 FY97: $49,300 Total: $49,300
Prin. Invest.: D MARLEY
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 5060 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6884**
SEARCHING FOR ANTIMATTER AND COSMIC RAY STUDIES USING BESS
05/01/1996 – 10/31/1997 FY97: $28,915 Total: $56,318
Prin. Invest.: S J STOCHAJ
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5068 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6885**
WIZARD-RELATED BALLOON PROGRAM FUNDING FOR THE FIRST YEAR OF THE GRANT
05/03/1996 – 10/31/1997 FY97: $0 Total: $246,000
Prin. Invest.: S J STOCHAJ
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5073 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6886**
A RESEARCH PROGRAM IN COSMIC RAY ASTRONOMY AND RELATED LABORATORY MEASUREMENTS
05/03/1996 – 03/31/1998 FY97: $260,538 Total: $300,538
Prin. Invest.: W P WEBBER
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 6193 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6887**
ADVANCEMENT IN DETERMINING HAZARDOUS VOLATILE ORGA
09/10/1997 – 09/30/1998 FY97: $151,958 Total: $151,958
Prin. Invest.: D EICEMAN
Tech. Officer: GSFC/G FOGLEMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 9 938 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6888**
3D MULTIPHASE – FLOW MODELING OF OXYGEN FLOW SYSTEMS
04/21/1997 – 03/30/1998 FY97: $182,823 Total: $182,823
Prin. Invest.: I H LESLIC
Tech. Officer: JSC/J M STOLTZFUS
CASE Category: 46 – MECHANICAL ENGR

NAGW 110 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6889**
CONTINUATION OF A COSMIC RAY RESEARCH PROGRAM USING
08/01/1980 – 12/31/1996 FY97: $0 Total: $2,915,813
Prin. Invest.: R L GOLDEN
Tech. Officer: HQ/M M MELLOTT, HQ/W V JONES
CASE Category: 11 – ASTRONOMY

NAGW 1802 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6890**
LONG TERM CHANGES IN REFLECTIVITY AND LARGE SCALE MOTIONS
07/10/1989 – 03/31/1997 FY97: $0 Total: $359,360
Prin. Invest.: R REEBE
Tech. Officer: HQ/J RAHE
CASE Category: 11 – ASTRONOMY

NAGW 2016 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6891**
NAGW-2016/NEW MEXICO STATE UNIV/A RESEARCH PROGRAM IN THE AREA OF COSMIC RAY PHYSICS & RELATED LAB.
04/04/1990 – 08/31/1996 FY97: $0 Total: $308,110
Prin. Invest.: W R WEBBER
Tech. Officer: HQ/W JONES, HQ/J C LING
CASE Category: 13 – PHYSICS

NAGW 2630 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6892**
THE RADIAL DISTRIBUTIONS OF FAR INFRARED LUMINOSIT Y IN LARGE SPIRAL GALAXIES
09/16/1991 – 08/31/1997 FY97: $0 Total: $463,726
Prin. Invest.: N A DEVEREUX
Tech. Officer: HQ/G S KUTTER, HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 3022 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6893**
TRANSPORT COLLABORATION
04/03/1992 – 05/31/1997 FY97: $0 Total: $234,000
Prin. Invest.: W R WEBBER
Tech. Officer: HQ/W V JONES, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 3152 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6894**
STUDIES OF ASTROPHYSICAL PLASMAS IN CLUSTERS OF GA LAXES
07/23/1992 – 10/31/1996 FY97: $0 Total: $549,359
Prin. Invest.: J BURNS
Tech. Officer: HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 4558 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6895**
ADVANCEMENT IN DETERMINING HAZARDOUSD VOLATILE ORG ANIC COMPOUNDS
05/31/1995 – 09/30/1997 FY97: $145,148 Total: $290,806
Prin. Invest.: G A EICEMAN
Tech. Officer: HQ/G C FOGLEMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAS 5 31125 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6896**
O/M OF NATIONAL SCIENTIFIC BALLOON FACILITY & ENGINEERING SUPPORT FOR NASA BALLOON PROGRAM
09/14/1992 – 09/30/1997 FY97: $10,180,935 Total: $69,619,699
Prin. Invest.: J E HALLIGAN
Tech. Officer: GSFC/R S NOCK, GSFC/H C NEEDLEMAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 5 32252 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6897**
SOUNDING ROCKET ENGINEERING SUPPORT
04/21/1995 – 02/01/1998 FY97: $3,231,671 Total: $9,013,810
Prin. Invest.: A BAKER
Tech. Officer: GSFC/N SCHULTZ
CASE Category: 45 – ELECTRICAL ENGR

NCC 2 1002 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6898**
COCKPIT INTERRUPTIONS, DISTRACTIONS, & RECOVERY – A STUDY OF MEMORY & DIVIDED ATTENTION IN THE
07/29/1997 – 06/30/1998 FY97: $78,417 Total: $78,417
Prin. Invest.: G E YOUNG
Tech. Officer: ARC/R K DISMUKES
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 40019 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6899**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
03/12/1990 – 09/30/1997 FY97: $0 Total: $2,538,850
Prin. Invest.: S HORAN
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51383 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6900**
GRADUATE STUDIES RESEARCHERS PROGRAM
06/26/1995 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: M S MARLEY
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51640 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6901**
GRAD STUDENT RESEARCH PROGRAM
08/15/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: R M WALLERBOS
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 70341 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6902**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
06/30/1993 – 06/30/1996 FY97: $0 Total: $66,000
Prin. Invest.: V GHOO
Tech. Officer: HQ/D RUSSELL
CASE Category: 79 – SOCIAL SCIENCE, OTHER

NGT 90114 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6903**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
09/17/1992 – 08/14/1996 FY97: $0 Total: $48,000
Prin. Invest.: P HYNES
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90115 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6904**
NGT-90115/NEW MEXICO ST UNIV/UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UNF)
09/23/1992 – 08/14/1996 FY97: $0 Total: $48,000
Prin. Invest.: P HYNES
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90161 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6905**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/26/1993 – 08/14/1996 FY97: $0 Total: $168,000
Prin. Invest.: P HYNES
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40061 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6906**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIPPROGRAM.
03/04/1997 – 01/31/1998 FY97: $380,000 Total: $380,000
Prin. Invest.: S HORAN
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50019 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6907**
EXPANDING SHEELS, HOT GAS, AND THE VIOLENT INTERST ES
07/14/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: R WALTERBOS
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50117 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6908**
DIRECT SOLUTION OF LARGE, SPARSE SYSTEMS OF EQUATI
09/06/1997 – 06/30/1998 FY97: $20,500 Total: $20,500
Prin. Invest.: S CASTILLO
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50148 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6909**
ENERGY BALANCE IN URANUS' ATMOSPHERE THE LUMINOSIT GSPR RECIPIENT: CHARLES M. WALTER
09/10/1997 – 06/30/1998 FY97: $11,000 Total: $11,000
Prin. Invest.: M MARLEY
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90054 NEW MEXICO STATE UNIVERSITY – LAS CRUCES **6910**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
02/12/1997 – 08/15/1997 FY97: $136,776 Total: $136,776
Prin. Invest.: P HYNES
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 44 – CIVIL ENGR

NAG 9 937 SOUTHWESTERN INDIAN POLYTECHNIC INSTITUTE **6911**
SIPI PACE/MSET PROGRAM
04/09/1997 – 04/08/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: J A JOHNSON
Tech. Officer: JSC/L M ARMENDARIZ
CASE Category: 79 – SOCIAL SCIENCE, OTHER

NAGW 5164 SOUTHWESTERN INDIAN POLYTECHNIC INSTITUTE **6912**
NASA PACE/MSET PROJECT
09/20/1996 – 03/17/1997 FY97: $100,000 Total: $100,000
Prin. Invest.: J A JOHNSON
Tech. Officer: HQ/B L WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 3 1976 UNIVERSITY OF NEW MEXICO **6913**
NEW PHENOMENA IN STRONGLY COUNTERFLOWING HE-II
10/22/1996 – 09/30/2000 FY97: $88,000 Total: $88,000
Prin. Invest.: S T BOYD, R V DUNCAN, M J ADVIAANS
Tech. Officer: LERC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 3 2008 UNIVERSITY OF NEW MEXICO **6914**
NUMERICAL ANALYSIS OF COMPLEX PHYSICAL PROCESSES I N REACTION DYNAMICS
01/28/1997 – 01/14/1999 FY97: $83,734 Total: $83,734
Prin. Invest.: T HAGSTROM
Tech. Officer: LERC/J W GOODRICH, LERC/D A JACQMIN
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 5 2609 UNIVERSITY OF NEW MEXICO **6915**
HIGH PERFORMANCE COMMUNICATION VLSI ARCHITECTURES
06/13/1994 – 06/30/1998 FY97: $365,000 Total: $1,535,000
Prin. Invest.: G K MAKI, S WHITAKER, K CAMERON
Tech. Officer: GSFC/W H MILLER, GSFC/P S YEH
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 3167 UNIVERSITY OF NEW MEXICO **6916**
THE ORIGIN OF SOFT GAMMA REPEATERS
02/12/1996 – 02/28/1997 FY97: $0 Total: $60,000
Prin. Invest.: R I EPSTEIN
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3568 UNIVERSITY OF NEW MEXICO **6917**
USERC PROGRAM AND DESIGN OF VLSI PROCESSORS AND TE FLIGHT AND GROUND SYSTEMS
02/19/1997 – 10/31/1997 FY97: $1,300,000 Total: $1,300,000
Prin. Invest.: G K MAKI
Tech. Officer: GSFC/W MILLER
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 4253 UNIVERSITY OF NEW MEXICO **6918**
MICROBEAM STUDIES OF PLANETARY MATERIALS/SUPPORT F TRON MICROSCOPE
04/01/1997 – 12/15/1997 FY97: $267,000 Total: $267,000
Prin. Invest.: D J PAPIKE
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 – CHEMISTRY

NAG 5 4441 UNIVERSITY OF NEW MEXICO **6919**
PETROLOGY OF PRESOLAR DUST AND ALTERATION IN CHOND
04/28/1997 – 03/31/1998 FY97: $110,000 Total: $110,000
Prin. Invest.: D J RIETMEIJER
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4619 UNIVERSITY OF NEW MEXICO **6920**
METEORITES AND SMALL PRIMITIVE SOLAR SYSTEM BODIES
05/20/1997 – 05/14/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: D J BREARLEY
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4935 UNIVERSITY OF NEW MEXICO **6921**
MICROSTRUCTURAL STUDIES BEARING ON THE ORIGIN OF C ASSOCIATED MINERALS IN MARTIAN METEORITE ALH 8400
06/23/1997 – 06/30/1998 FY97: $43,000 Total: $43,000
Prin. Invest.: A J BREARLEY
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 6105 UNIVERSITY OF NEW MEXICO **6922**
DECIPHERING SULFUR ISOTOPIC SYSTEMATICS AS A POTEN 4001
07/24/1997 – 07/31/1998 FY97: $49,000 Total: $49,000
Prin. Invest.: C SHEARER
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 9 947 UNIVERSITY OF NEW MEXICO **6923**
GRANT FOR DEVELOPMENT OF A LOW COST RADIATION TOLERANT STANDARD CELL LIBRARY
06/19/1997 – 06/19/1998 FY97: $88,000 Total: $88,000
Prin. Invest.: J W GAMBLES
Tech. Officer: JSC/R L SHULER
CASE Category: 49 – ENGINEERING, OTHER

NAGW 3293 UNIVERSITY OF NEW MEXICO **6924**
NAGW-3293/UNIV NEW MEXICO/NASA SPACE ENGINEERING RESEARCH CENTER FOR VLSI SYSTEMS DESIGN
11/27/1992 – 10/31/1996 FY97: $0 Total: $4,580,000
Prin. Invest.: G MAKI
Tech. Officer: HQ/R J HAYDUK, HQ/P H SMITH
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAGW 3347 UNIVERSITY OF NEW MEXICO **6925**
MICROBEAM STUDIES OF PLANETARY MATERIALS
01/13/1993 – 12/14/1996 FY97: $116,895 Total: $852,487
Prin. Invest.: J J PAPIKE
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3626 UNIVERSITY OF NEW MEXICO **6926**
LAYER SILICATES AND CARBONACEOUS MATERIALS IN CHON DRITE INTERPLANETARY DUST
06/02/1993 – 03/31/1998 FY97: $110,000 Total: $355,679
Prin. Invest.: F RIETMEIJER
Tech. Officer: HQ/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3646 UNIVERSITY OF NEW MEXICO **6927**
PETROLOGICAL ANALYSIS OF ASTROPHYSICAL DUST ANALOG EVOLUTION
08/06/1993 – 02/28/1997 FY97: –$4 Total: $131,772
Prin. Invest.: F J RIETMEIJER
Tech. Officer: HQ/J A NUTH III
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG10 160 UNIVERSITY OF NEW MEXICO **6928**
CHEMICAL SENSORS
06/27/1995 – 07/31/1997 FY97: $0 Total: $200,816
Prin. Invest.: G LOPEZ
Tech. Officer: KSC/J SAGER
CASE Category: 59 – LIFE SCIENCE, OTHER

NASW 4683 UNIVERSITY OF NEW MEXICO **6929**
NASW–4683/UNIV NEW MEXICO/OPERATION OF TECHNOLOGY APPLICATION CENTER
05/01/1992 – 12/31/1995 FY97: $0 Total: $1,045,469
Prin. Invest.: T M BUDGE, S MORAN
Tech. Officer: HQ/A KAHN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCCW 87 UNIVERSITY OF NEW MEXICO **6930**
CENTER FOR AUTOMOONOMOUS CONTROL ENGINEERING
08/04/1995 – 06/30/2000 FY97: $300,000 Total: $2,507,941
Prin. Invest.: T L COLEMAN
Tech. Officer: HQ/B L WHITE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 10029 UNIVERSITY OF NEW MEXICO **6931**
NASA SPACE ENGINEERING RESEARCH CENTER FOR VLSI SYSTEM DESIGN
12/09/1994 – 10/31/1997 FY97: $0 Total: $115,491
Prin. Invest.: G K MAKI
Tech. Officer: HQ/V BITTINGER
CASE Category: 49 – ENGINEERING, OTHER

NGT 70329 UNIVERSITY OF NEW MEXICO **6932**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
07/01/1993 – 06/30/1996 FY97: –$4,649 Total: $61,096
Prin. Invest.: J K MCIVER
Tech. Officer: HQ/D K RUSSELL
CASE Category: 13 – PHYSICS

NGT 90052 UNIVERSITY OF NEW MEXICO **6933**
UNDERGRADUATE RESEARCHER PROGRAM FOR ENGINEERING P HYSICAL SCIENCES AAND MATHEMATICS
08/23/1991 – 08/31/1996 FY97: $0 Total: $398,291
Prin. Invest.: M LEE
Tech. Officer: HQ/B WHITE
CASE Category: 49 – ENGINEERING, OTHER

NGT 90221 UNIVERSITY OF NEW MEXICO **6934**
UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
09/14/1993 – 10/15/1997 FY97: $0 Total: $36,000
Prin. Invest.: M LEE
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30045 UNIVERSITY OF NEW MEXICO **6935**
NASA TRAINING PROJECT
07/15/1997 – 06/30/1998 FY97: $450,199 Total: $450,199
Prin. Invest.: J TORRES
Tech. Officer: GSFC/M MATEU
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90050 UNIVERSITY OF NEW MEXICO **6936**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
02/12/1997 – 08/14/1997 FY97: $68,000 Total: $68,000
Prin. Invest.: G WARD
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 43 – CHEMICAL ENGR

NGT32 4770 UNIVERSITY OF NEW MEXICO **6937**
THE TRAINING OF 12 STUDENTS IN A PRE–COOPERATIVE EDUCATION PROGRAM
06/25/1977 – 05/31/1997 FY97: $450,199 Total: $3,359,980
Prin. Invest.: M LEE
Tech. Officer: HQ/O A GUTIERREZ
CASE Category: 49 – ENGINEERING, OTHER

NEW YORK

NAG 5 2937 BARNARD COLLEGE **6938**
ARE THERE ANY "TRUE" SEYFERT 2 GALAXIES? (NO COST TIME EXTENSION)
05/08/1995 – 11/14/1997 FY97: $0 Total: $22,352
Prin. Invest.: L KAY
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NCC 2 963 BROOKLYN COLLEGE **6939**
BRAIN–PITUITARY AXIS DEVELOPMENT IN THE C.E.B.A.S. MINI–MODULE
08/07/1996 – 06/30/1998 FY97: $128,102 Total: $228,102
Prin. Invest.: M P SCHREIBMAN
Tech. Officer: ARC/D A REISS–BUBENHEIM, ARC/W E HINDS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 6085 CITY UNIV OF NY HERBERT H. LEHMAN COLLEGE **6940**
PACE/MSET AWARD
09/03/1997 – 06/30/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: A L ROTHSTEIN
Tech. Officer: HQ/M STOUSENBERGER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5180 CITY UNIV OF NY HERBERT H. LEHMAN COLLEGE **6941**
PACE/MSET PROGRAM
09/23/1996 – 06/30/1997 FY97: $100,000 Total: $100,000
Prin. Invest.: A L ROTHSTEIN
Tech. Officer: HQ/B WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 3 2057 CITY UNIV. OF NY HOSTOS COMMUNITY COLL. **6942**
HOSTOS EARLY LEARNING COMMUNITIES
08/19/1997 – 06/30/1999 FY97: $75,000 Total: $75,000
Prin. Invest.: G MELENDEZ–DELANEY
Tech. Officer: LERC/D CENTENO–GOMEZ
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 1 1159 CITY UNIVERSITY OF NEW YORK CITY COLLEGE **6943**
COMPUTATION OF UNSTEADY BOUNDARY LAYERS, CALCULA- TION AND STABILITY OF SUPERSONIC WAKES.
06/19/1990 – 01/31/1996 FY97: –$1,054 Total: $291,515
Prin. Invest.: A ACRIVOS, D PAPAGEORGIOU
Tech. Officer: LARC/M G MACARAEG, LARC/A KUMAR
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1590 CITY UNIVERSITY OF NEW YORK CITY COLLEGE **6944**
STUDIES OF SHOCK WAVE INTERACTIONS WITH HOMOGENEOUS AND ISOTROPIC TURBULENCE
03/01/1994 – 08/31/1997 FY97: $1 Total: $226,085
Prin. Invest.: C WATKINS, Y ANDREOPOULOS
Tech. Officer: LARC/D M BUSHNELL
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1913 CITY UNIVERSITY OF NEW YORK CITY COLLEGE **6945**
USING THE SCIENCE OF EVERYDAY OBJECTS TO TEACH SCI ENCE A DIS- SEMINATION PLAN
04/03/1997 – 04/02/1998 FY97: $30,000 Total: $30,000
Prin. Invest.: J M SCHLEIN
Tech. Officer: LARC/R A HATHAWAY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 3 1167 CITY UNIVERSITY OF NEW YORK CITY COLLEGE **6946**
MOLECULAR DYNAMICS OF A FLUID–SOLID SYSTEM
05/07/1990 – 12/31/1996 FY97: –$1,124 Total: $692,423
Prin. Invest.: J KOPLIK, J R BANEVAR
Tech. Officer: LERC/R W VERNON
CASE Category: 13 – PHYSICS

NAG 3 1490 CITY UNIVERSITY OF NEW YORK CITY COLLEGE **6947**
INVESTIGATION OF THE BASIC PHYSICS OF HIGH EFFICIE NCY SEMICON- DUCTOR HOT CARRIER SOLAR CELLS
04/21/1993 – 08/30/1996 FY97: $0 Total: $451,364
Prin. Invest.: R R ALFANO
Tech. Officer: LERC/B S GOOD, LERC/L WEINBERG
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1618 CITY UNIVERSITY OF NEW YORK CITY COLLEGE **6948**
CONTROLLING THE MOBLILITY OF A FLUID PARTICLE IN S ACE BY USING REMOBLIZING SURFACTANTS
06/16/1994 – 07/09/1996 FY97: –$836 Total: $99,164
Prin. Invest.: C MALDARELLI, D PAPAGEORGIOU
Tech. Officer: LERC/M M WEISLOGEL, LERC/R THOMPSON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1836 CITY UNIVERSITY OF NEW YORK CITY COLLEGE **6949**
MOLECULAR DYNAMICS OF FLUID–SOLID SYSTEM
04/19/1996 – 04/30/2000 FY97: $100,000 Total: $250,000
Prin. Invest.: J KOPLIK, J BANAVAR
Tech. Officer: LERC/B SINGH
CASE Category: 13 – PHYSICS

NAG 3 2074 CITY UNIVERSITY OF NEW YORK CITY COLLEGE **6950**
PICOSECOND GATED OPTICAL IMAGIG OF DENSE FUEL SPRA YS
09/17/1997 – 07/15/2000 FY97: $99,998 Total: $99,998
Prin. Invest.: P P HO
Tech. Officer: LERC/K J BREISACHER, LERC/L LIOU
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 3476 CITY UNIVERSITY OF NEW YORK CITY COLLEGE **6951**
CUNY COLLABORATIVE MASTAP SUMMER INSTITUTE
11/18/1996 – 08/31/1997 FY97: $196,946 Total: $196,946
Prin. Invest.: J SCHLEIN
Tech. Officer: GSFC/M MATEU
CASE Category: 21 – MATHEMATICS

NAG 5 4019 CITY UNIVERSITY OF NEW YORK CITY COLLEGE **6952**
CONTINUATION OF GRANT
03/03/1997 – 11/30/1997 FY97: $100,000 Total: $100,000
Prin. Invest.: D AKINS
Tech. Officer: GSFC/S GLICKER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4911 CITY UNIVERSITY OF NEW YORK CITY COLLEGE **6953**
ADVANCING MINORITIES IN SCIENCE AND ENGINEERING ED
07/16/1997 – 05/31/1998 FY97: $156,553 Total: $156,553
Prin. Invest.: J BARBA
Tech. Officer: GSFC/M MATEU
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 261 CITY UNIVERSITY OF NEW YORK CITY COLLEGE **6954**
JOVE
12/08/1992 – 12/31/1996 FY97: –$3 Total: $65,997
Prin. Invest.: G G GOSS
Tech. Officer: MSFC/F SIX
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 3860 CITY UNIVERSITY OF NEW YORK CITY COLLEGE **6955**
POSTURE LOAD INDUCED BONE MAINTENANCE
01/26/1994 – 06/30/1997 FY97: $0 Total: $240,000
Prin. Invest.: S COWIN
Tech. Officer: HQ/F M SULZMAN
CASE Category: 46 – MECHANICAL ENGR

NAGW 4098 CITY UNIVERSITY OF NEW YORK CITY COLLEGE **6956**
TUNABLE SOLID STATE LASERS AND OPTICAL IMAGING
08/02/1994 – 11/30/1997 FY97: $799,628 Total: $1,799,120
Prin. Invest.: R ALFANO
Tech. Officer: HQ/B L WHITE
CASE Category: 13 – PHYSICS

NAGW 4118 CITY UNIVERSITY OF NEW YORK CITY COLLEGE **6957**
ELECTRON COLLISIONS WITH FREE RADICALS
08/17/1994 – 12/31/1997 FY97: $0 Total: $120,000
Prin. Invest.: K BECKER
Tech. Officer: HQ/J BERGARAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4211 CITY UNIVERSITY OF NEW YORK CITY COLLEGE **6958**
CUNY COLLABORATIVE MASTAP SUMMER INSTITUTE
12/07/1994 – 08/31/1997 FY97: $0 Total: $330,470
Prin. Invest.: J DAVIS
Tech. Officer: HQ/D RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4576 CITY UNIVERSITY OF NEW YORK CITY COLLEGE **6959**
ADVANCING MINORITIES IN SCIENCE AND ENGINEERING ED UCATION
06/13/1995 – 03/31/1997 FY97: $0 Total: $307,200
Prin. Invest.: J BARBA
Tech. Officer: HQ/M MATEU
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 5 74 CITY UNIVERSITY OF NEW YORK CITY COLLEGE **6960**
COOPERATIVE RESEARCH AND EDUCATION
06/28/1994 – 06/30/1998 FY97: $388,425 Total: $1,385,650
Prin. Invest.: L P JONES, J W FROST
Tech. Officer: GSFC/D TRAVIS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 5 98 CITY UNIVERSITY OF NEW YORK CITY COLLEGE **6961**
AN URBAN COLLABORATION FOR NETWORK CONNECTIVITY AND INTERNET ACCESS
09/13/1995 – 09/14/1997 FY97: $500,000 Total: $1,400,000
Prin. Invest.: S AUSTIN
Tech. Officer: GSFC/J BENNETT
CASE Category: 22 – COMPUTER SCIENCE

NCC 5 206 CITY UNIVERSITY OF NEW YORK CITY COLLEGE **6962**
PRESERVATION OF THE ENVIRONMENT THROUGH EDUCATION SENSING OF THE ATMOSPHERE AND OF LAND–USE/LAND–CO
06/17/1997 – 05/31/1998 FY97: $200,000 Total: $200,000
Prin. Invest.: R KHANBILVARDI
Tech. Officer: GSFC/A A LACIS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 90251 CITY UNIVERSITY OF NEW YORK CITY COLLEGE **6963**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
01/11/1995 – 08/14/1996 FY97: $0 Total: $96,000
Prin. Invest.: A R BROWN
Tech. Officer: HQ/D K RUSSELL
CASE Category: 44 – CIVIL ENGR

NCC 5 129 CITY UNIVERSITY OF NEW YORK SYSTEM **6964**
RESEARCH IN GLOBAL CLIMATE VARIABILITY
01/18/1996 – 01/14/1998 FY97: $460,000 Total: $610,000
Prin. Invest.: N A PARKER
Tech. Officer: GSFC/B E CARLSON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 5 90060 CITY UNIVERSITY OF NEW YORK SYSTEM **6965**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
02/06/1997 – 08/14/1997 FY97: $92,000 Total: $92,000
Prin. Invest.: C WATKINS
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 45 – ELECTRICAL ENGR

NAG 1 1699 CLARKSON UNIVERSITY **6966**
JET MIXING ENHANCEMENT BY FEEDBACK CONTROL
03/08/1995 – 05/31/1998 FY97: $50,001 Total: $131,947
Prin. Invest.: M GLAUSER, T CORKE, G BERKOOZ
Tech. Officer: LARC/J M SEINER, LARC/M K PONTON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 724 CLARKSON UNIVERSITY **6967**
"INSTRUMENTATION DEVELOPMENT FOR MULTIPOINT MEASUR EMENTS"
07/24/1991 – 07/31/1996 FY97: $0 Total: $384,369
Prin. Invest.: M N GLAUSER
Tech. Officer: DFRC/P HARNEY, DFRC/R K BOGUE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1122 CLARKSON UNIVERSITY **6968**
THERMOCAPILLARY MIGRATION & INTERACTIONS OF BUBBLE & DROPS
01/10/1990 – 02/20/1998 FY97: $175,000 Total: $1,378,490
Prin. Invest.: R S SUBRAMANIAN
Tech. Officer: LERC/M E HILL
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1891 CLARKSON UNIVERSITY **6969**
ABSOLUTE AND CONVECTIVE INSTABILITY AND SPLITTING OF A LIQUID
05/30/1996 – 05/31/2000 FY97: $50,000 Total: $136,000
Prin. Invest.: S P LIN
Tech. Officer: LERC/M E HILL
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 2471 CLARKSON UNIVERSITY **6970**
EXPERIMENTAL AND ANALYTICAL STUDIES OF CAPILLARY–P UMPED LOOP HEAT PIPES
12/22/1993 – 11/14/1997 FY97: $73,872 Total: $221,616
Prin. Invest.: N T OBOT
Tech. Officer: GSFC/J KU
CASE Category: 49 – ENGINEERING, OTHER

NAG 8 1063 CLARKSON UNIVERSITY **6971**
MODELING OF DETACHED SOLIDIFICATION
06/23/1994 – 12/22/1996 FY97: $0 Total: $108,000
Prin. Invest.: L L REGEL, W R WILCOX
Tech. Officer: MSFC/J P DOWNEY
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 8 1266 CLARKSON UNIVERSITY **6972**
USE OF MICROGRAVITY TO CONTROL THE MICROSTRUCTURE OF EUTE-CICES
05/01/1996 – 04/30/1998 FY97: $67,500 Total: $202,500
Prin. Invest.: W R WILCOX, L L REGEL
Tech. Officer: MSFC/D R WOODARD, MSFC/R W ALLEN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 4 110 CLARKSON UNIVERSITY **6973**
INSTRUMENTATION DEVELOPMENT FOR MULTIPOINT MEASUREMENTS
04/02/1997 – 07/31/1997 FY97: $20,000 Total: $20,000
Prin. Invest.: M N GLAUSER
Tech. Officer: DFRC/R K BOGUE
CASE Category: 22 – COMPUTER SCIENCE

NGT 51142 CLARKSON UNIVERSITY **6974**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/19/1993 – 01/15/1998 FY97: $0 Total: $66,000
Prin. Invest.: S P LIN
Tech. Officer: HQ/R WHITE
CASE Category: 46 – MECHANICAL ENGR

NGT 51314 CLARKSON UNIVERSITY **6975**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/08/1994 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: G AHMADI
Tech. Officer: ARC/M MOORE
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51345 CLARKSON UNIVERSITY **6976**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/28/1994 – 06/30/1997 FY97: $390 Total: $66,390
Prin. Invest.: D K AIDUN
Tech. Officer: HQ/GA LESANE
CASE Category: 49 – ENGINEERING, OTHER

NGT 51354 CLARKSON UNIVERSITY **6977**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/08/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: F M CARLSON
Tech. Officer: HQ/GA LESANE
CASE Category: 46 – MECHANICAL ENGR

NGT 51362 CLARKSON UNIVERSITY **6978**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/08/1994 – 07/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: F M CARLSON
Tech. Officer: HQ/GA LESANE
CASE Category: 46 – MECHANICAL ENGR

NGT 1 52102 CLARKSON UNIVERSITY **6979**
GRADUATE STUDENT RESEARCHER PROGRAM (GSRP)
06/13/1995 – 06/30/1998 FY97: $9,150 Total: $53,151
Prin. Invest.: M GLAUSER, S D STOKES
Tech. Officer: LARC/W L SELLERS, LARC/T B GATSKI
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 3 52335 CLARKSON UNIVERSITY **6980**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/11/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: P PILLAY
Tech. Officer: LERC/F J MONTEGANI
CASE Category: 49 – ENGINEERING, OTHER

NGT 4 51314 CLARKSON UNIVERSITY **6981**
VIBRATION CONTROL OF AIRBORNE EQUIPMENT USING SMART MATERIALS
06/11/1996 – 08/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: D AHMADI
Tech. Officer: DFRC/M KEHOE, DFRC/K GUPTA
CASE Category: 46 – MECHANICAL ENGR

NGT 4 72400 CLARKSON UNIVERSITY **6982**
3–D HEAT TRANSFER EFFECTS ON THE PERFORMANCE OF HOT–FILM
06/30/1995 – 08/31/1998 FY97: $8,421 Total: $52,421
Prin. Invest.: M GLAUSER
Tech. Officer: DFRC/E J COX, DFRC/S B BRITMAN
CASE Category: 46 – MECHANICAL ENGR

NAG 2 987 COLUMBIA UNIVERSITY **6983**
DEVELOPMENT OF THE FISH MEDAKA IN MICROGRAVITY
06/15/1995 – 12/31/1997 FY97: $195,938 Total: $603,697
Prin. Invest.: D J WOLGEMUTH, C R PHILLIPS
Tech. Officer: ARC/C M WINGET, ARC/G C JANHNS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 618 COLUMBIA UNIVERSITY **6984**
X–RAY ASTRONOMY
02/01/1983 – 12/31/1997 FY97: $132,656 Total: $8,453,163
Prin. Invest.: R NOVICK, W H–M KU, M VARTANIAN
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 642 COLUMBIA UNIVERSITY **6985**
HIGH EMISSION LINE SPECTROSCOPY
04/01/1987 – 03/31/1997 FY97: $0 Total: $2,698,863
Prin. Invest.: C MARTIN
Tech. Officer: GSFC/L JEARLY, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 1935 COLUMBIA UNIVERSITY **6986**
SEYFERT 1.8 AND 1.9 GLAXIES (509)
04/07/1992 – 10/31/1997 FY97: $0 Total: $172,081
Prin. Invest.: J P HALPERN
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 1948 COLUMBIA UNIVERSITY **6987**
DEFORMATION IN ALASKA: (1) ANAL., OF GPS REOCCUPA TION OF ALASKAN VLBI SITES (2) SUBDUCTION, . . .
03/18/1992 – 09/30/1997 FY97: $0 Total: $259,450
Prin. Invest.: J BEAVAN
Tech. Officer: GSFC/B G BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 1949 COLUMBIA UNIVERSITY **6988**
KINEMATICS OF THE NEW ZEALAND PLATE BOUNDARY: REL ATIVE MOTION BY GPS ACROSS NETWORKS
03/18/1992 – 05/31/1998 FY97: $42,578 Total: $177,193
Prin. Invest.: J BEAVAN
Tech. Officer: GSFC/B G BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 1960 COLUMBIA UNIVERSITY **6989**
FOUR–DIMENSIONAL OCEANIC AND ATMOSPHERIC DATA ASSI MILATION WITH THE TRMM DATA
04/03/1992 – 11/30/1996 FY97: $0 Total: $440,000
Prin. Invest.: K TAKANO
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2051 COLUMBIA UNIVERSITY **6990**
MULTIWAVELENGTH OBSERVATIONS OF UNIDENTIFIED HIGH– ENERGY GAMMA–RAY SOURCES
07/28/1992 – 02/14/1997 FY97: $0 Total: $150,412
Prin. Invest.: J P HALPERN
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2235 COLUMBIA UNIVERSITY **6991**
GAMMA–RAY EMISSION FROM GLOBULAR CLUSTERS
04/08/1993 – 10/14/1997 FY97: $0 Total: $214,699
Prin. Invest.: P KAARET
Tech. Officer: GSFC/J NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 2524 COLUMBIA UNIVERSITY **6992**
WARM ABSORBERS: THE MOMENT OF TRUTH & THE GEMINGA PULSAR
02/24/1994 – 03/14/1998 FY97: $0 Total: $79,654
Prin. Invest.: J P HALPERN
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2556 COLUMBIA UNIVERSITY **6993**
NEW STARBURST GALAXIES WITH EXTREME X-RAY LUMINOSI TIES & THROUGH THE GAS DARKLY: AN UNOBSCURED.....
03/10/1994 – 09/30/1997 FY97: $20,752 Total: $106,504
Prin. Invest.: D J HELFAND
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2569 COLUMBIA UNIVERSITY **6994**
DISTANCE TO THE GEMINGA PULSAR
04/12/1994 – 04/14/1997 FY97: $0 Total: $86,658
Prin. Invest.: J P HALPERN
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 2729 COLUMBIA UNIVERSITY **6995**
SEARCH FOR HARD X-RAY EMISSION FROM AQUILA X-1; HIGH ENERGY EMISSION FROM THE GAMMA-RAY/RADIO
09/27/1994 – 09/30/1997 FY97: $0 Total: $148,575
Prin. Invest.: M TAVANI, B A HARMON
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2730 COLUMBIA UNIVERSITY **6996**
X-RAY EMISSION FROM THE BE-STAR/PULSAR SYSTEM PSR 1259-63
09/20/1994 – 09/14/1997 FY97: $0 Total: $34,005
Prin. Invest.: TAVANI
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2841 COLUMBIA UNIVERSITY **6997**
NEUTRON STAR PHENOMENA
12/15/1994 – 01/14/1998 FY97: $0 Total: $178,000
Prin. Invest.: M RUDERMAN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2859 COLUMBIA UNIVERSITY **6998**
TIDAL POWER, IRRADIATION-DRIVEN WINDS, AND THE EVO LUTION OF THE ECLIPSING MILLISECOND P
01/09/1995 – 01/14/1998 FY97: $0 Total: $230,000
Prin. Invest.: J APPLEGATE
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2861 COLUMBIA UNIVERSITY **6999**
THE GAMMA-RAY LUMINOSITY FUNCTION OF RADIO PULSARS
01/06/1995 – 01/14/1998 FY97: $0 Total: $47,136
Prin. Invest.: D J HELFAND
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2872 COLUMBIA UNIVERSITY **7000**
GAMMA RAY OBSERVATIONS OF THE ORION CLOUD REGION W ITH EGRET
01/18/1995 – 01/31/1998 FY97: $0 Total: $6,905
Prin. Invest.: E APRILE, R MUKHERJEE
Tech. Officer: GSFC/J P NORRIE, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2916 COLUMBIA UNIVERSITY **7001**
1)THE ORIGIN OF HIGH X-RAY LUMINOSITIES IN OPTI- CALLY PASSIVE GALAXIES;2) RESOLVING THE SOURCE ETC
03/17/1995 – 09/30/1998 FY97: $0 Total: $36,078
Prin. Invest.: D HELFAND
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2987 COLUMBIA UNIVERSITY **7002**
SCALE-SPACE (WAVELET) ANALYSIS OF TOPOGRAPHY, AND ITS USE IN UNDERSTANDING THE EVOLUTION OF ETC.....
06/30/1995 – 06/30/1998 FY97: $70,000 Total: $213,603
Prin. Invest.: J WEISSEL
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 2991 COLUMBIA UNIVERSITY **7003**
EUVE SPECTROSCOPY OF THE ACCRETION REGION IN AM HERCULIS
07/03/1995 – 07/14/1997 FY97: $0 Total: $18,539
Prin. Invest.: F B PAERELS
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 3014 COLUMBIA UNIVERSITY **7004**
RE-OBSERVING THE FIRST HOURS OF SUPERNOVA 1987A
07/18/1995 – 07/31/1997 FY97: $0 Total: $32,000
Prin. Invest.: A P CROTTS
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3091 COLUMBIA UNIVERSITY **7005**
DARK MATTER IN UNIVERSE AND IN GALAXY
10/05/1995 – 10/14/1997 FY97: $0 Total: $140,000
Prin. Invest.: M P KAMIONKOWSKI
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3092 COLUMBIA UNIVERSITY **7006**
GAMMA-RAY SPECTROSCOPY OF NEARBY OB ASSOCIATIONS
10/12/1995 – 10/14/1997 FY97: $0 Total: $28,996
Prin. Invest.: J R DWYER
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3229 COLUMBIA UNIVERSITY **7007**
THE NEW X-RAY/GAMMA-RAY PULSARS
05/15/1996 – 06/14/1998 FY97: $90,000 Total: $180,000
Prin. Invest.: J P HAIPERN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3287 COLUMBIA UNIVERSITY **7008**
HIGH SPATIAL RESOLUTION STUDIES OF BLASTWAVE INTER ACTIONS IN THE VELA SUPERNOVA
07/01/1996 – 06/30/1997 FY97: $0 Total: $15,000
Prin. Invest.: W CRAIG
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 3288 COLUMBIA UNIVERSITY **7009**
WHITE DWARF PULSARS
07/02/1996 – 01/31/1998 FY97: $0 Total: $26,500
Prin. Invest.: J PATTERSON
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3307 COLUMBIA UNIVERSITY **7010**
1) MONITORING MRK 509: THE ORIGIN OF THE REPROCESS OR; 2) BROAD BAND X-RAY SPECTRUM OF NARROW.....
07/24/1996 – 01/31/1998 FY97: $0 Total: $60,700
Prin. Invest.: J HALTON
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3311 COLUMBIA UNIVERSITY **7011**
ECHO TOMOGRAPHY OF REPROCESSING SITES IN X-RAY BIN ARIES
07/24/1996 – 01/31/1998 FY97: $0 Total: $5,000
Prin. Invest.: C HASWELL
Tech. Officer: GSFC/J SWANK
CASE Category: 13 – PHYSICS

NAG 5 3319 COLUMBIA UNIVERSITY **7012**
COLUMBIA UNIVERSITY PARTICIPATION IN THE INFRARED SPACE OBSERVATORY (ISO) GUEST OBSERVER PROGRAM
07/30/1996 – 08/14/1998 FY97: $0 Total: $77,400
Prin. Invest.: A P CROTTA
Tech. Officer: GSFC/WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3329 COLUMBIA UNIVERSITY **7013**
THE X-RAY SPECTRUM OF WZ SAGITTAE
08/12/1996 – 02/14/1998 FY97: $0 Total: $20,000
Prin. Invest.: J PATTERSON
Tech. Officer: GSFC/NWHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3460 COLUMBIA UNIVERSITY **7014**
XTE PROPOSAL (10095) HARD X-RAY EMISSION OF X-RAY BURSTERS
10/15/1996 – 10/14/1997 FY97: $14,300 Total: $14,300
Prin. Invest.: P KAARET
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3463 COLUMBIA UNIVERSITY **7015**
INNOVATIVE RESEARCH PROGRAM – SUPERSHIELDS FOR GAM
11/02/1996 – 09/30/1997 FY97: $388,763 Total: $388,763
Prin. Invest.: C J HAILEY
Tech. Officer: GSFC/D HOLLAND
CASE Category: 11 – ASTRONOMY

NAG 5 3482 COLUMBIA UNIVERSITY **7016**
CHANCELLOR'S MODEL SCHOOL PROJECT
11/22/1996 – 08/31/1997 FY97: $250,060 Total: $250,060
Prin. Invest.: G LOPEZ
Tech. Officer: GSFC/M MATEU
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 3502 COLUMBIA UNIVERSITY **7017**
SN 1987A: FORMATION OF A SUPERNOVA REMNANT
12/11/1996 – 12/14/1997 FY97: $96,700 Total: $96,700
Prin. Invest.: A P CROTTS
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3541 COLUMBIA UNIVERSITY **7018**
SOFT X-RAY SPECTROSCOPY OF ACCRETION-POWERED SOURC ES
12/09/1996 – 04/30/1998 FY97: $162,000 Total: $162,000
Prin. Invest.: S M KAHN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3595 COLUMBIA UNIVERSITY **7019**
MONITORING X-RAY EMISSION FROM X-RAY BURSTERS
01/02/1997 – 12/31/1997 FY97: $8,400 Total: $8,400
Prin. Invest.: P KAARET
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3622 COLUMBIA UNIVERSITY **7020**
A STUDY OF LONG-TERM VARIABILITY IN THE X-RAY EMIS SION PROPERTIES OF AM HERCULIS
03/07/1997 – 10/31/1997 FY97: $36,424 Total: $36,424
Prin. Invest.: S KAHN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3797 COLUMBIA UNIVERSITY **7021**
PAIR PRODUCTION AND GAMMA-RAY EMISSION IN THE OUTE RAPIDLY SPINNING YOUNG PULSARS
11/27/1996 – 11/30/1997 FY97: $15,000 Total: $15,000
Prin. Invest.: K CHEN
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3798 COLUMBIA UNIVERSITY **7022**
THE BRIGHT GAMMA-RAY TRANSIENT GRO J1838-0145, $29 MULTIWAVELENGTH STUDIES OF X-RAY NOVAE, $10,000.0
11/27/1996 – 11/30/1997 FY97: $39,000 Total: $39,000
Prin. Invest.: M TAVANI
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3799 COLUMBIA UNIVERSITY **7023**
X-RAY TRANSIENTS IN STAR-FORMING REGIONS, $17,000. EMISSIONS FROM X-RAY BURSTERS, $7,500.00
11/27/1996 – 11/30/1997 FY97: $24,500 Total: $24,500
Prin. Invest.: P KAARET
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3838 COLUMBIA UNIVERSITY **7024**
MULTIWAVELENGTH OBSERVATIONS OF THE GALACTIC SUPER 1915+105
02/14/1997 – 02/14/1998 FY97: $10,000 Total: $10,000
Prin. Invest.: M TAVANI
Tech. Officer: GSFC/N P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3843 COLUMBIA UNIVERSITY **7025**
INTERPRETING BROAD DOUBLE-PEAKED EMISSION LINES IN
02/20/1997 – 02/28/1998 FY97: $51,900 Total: $51,900
Prin. Invest.: K CHEN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3891 COLUMBIA UNIVERSITY **7026**
LONG TERM HARD X-RAY MONITORING OF X-RAY BURSTERS
05/27/1997 – 01/31/1998 FY97: $12,250 Total: $12,250
Prin. Invest.: P KAARET
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3953 COLUMBIA UNIVERSITY **7027**
MARKERS FOR ASSESSING VERTEBRATE DEVELOPMENT IN SP
02/12/1997 – 12/31/1997 FY97: $141,615 Total: $141,615
Prin. Invest.: D WOGLEMUTH
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 4012 COLUMBIA UNIVERSITY **7028**
STUDING ABSORPTION LINE FEATURE IN THE RELATIVISTI GRS1915+105
02/24/1997 – 02/28/1998 FY97: $7,000 Total: $7,000
Prin. Invest.: M TAVANI
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 4013 COLUMBIA UNIVERSITY **7029**
BLACK HOLE X-RAY NOVA OUTBURST WITH XTE AND HST
02/24/1997 – 02/28/1998 FY97: $5,000 Total: $5,000
Prin. Invest.: C HASWELL
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4028 COLUMBIA UNIVERSITY **7030**
MODELLING SOUTH PACIFIC OCEAN INTERACTIONS IN THE
03/13/1997 – 02/28/1998 FY97: $113,742 Total: $113,742
Prin. Invest.: D M HOLLAND
Tech. Officer: GSFC/R H THOMAS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4052 COLUMBIA UNIVERSITY **7031**
MODELING OF DISTRIBUTION AND INTERANNUAL TO INTER- DECADAL VARIATION OF AEROSOLS
02/26/1997 – 02/28/1998 FY97: $112,418 Total: $112,418
Prin. Invest.: I TEGEN
Tech. Officer: GSFC/D RIND
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4058 COLUMBIA UNIVERSITY **7032**
IMPACTS OF INTERANNUAL VARIABILITY ON AGRO ECOSYST EMS AND FISHERIES
03/26/1997 – 12/31/1997 FY97: $120,000 Total: $120,000
Prin. Invest.: M CANE
Tech. Officer: GSFC/D RENEL
CASE Category: 11 – ASTRONOMY

NAG 5 4112 COLUMBIA UNIVERSITY **7033**
VARIABILITY & SPECTRAL STUDIES OF LUMINIOUS SEYFER SEARCH FOR THE REFLECTION COMPONENT IN A QUASAR-R
04/15/1997 – 04/14/1998 FY97: $27,142 Total: $27,142
Prin. Invest.: K LEIGHLY
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4416 COLUMBIA UNIVERSITY **7034**
KILOHERTZ QPOS IN ATOLL SOURCES
05/01/1997 – 04/30/1998 FY97: $29,076 Total: $29,076
Prin. Invest.: P KAARET
Tech. Officer: GSFC/JSWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4424 COLUMBIA UNIVERSITY **7035**
LOCATING AND DETERMINING THE NATURE OF A PERSISTEN GROJ1814-12
05/07/1997 – 04/30/1998 FY97: $5,000 Total: $5,000
Prin. Invest.: M TAVANI
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4425 COLUMBIA UNIVERSITY **7036**
MONITORING X-RAY EMISSION FROM X-RAY BUSTERS
05/07/1997 – 04/30/1998 FY97: $8,832 Total: $8,832
Prin. Invest.: P KAARET
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4558 COLUMBIA UNIVERSITY **7037**
EXPERIMENTAL AND MODELING STUDIES OF MASSIF ANORTH
05/30/1997 – 02/28/1998 FY97: $30,000 Total: $30,000
Prin. Invest.: D LONGHI
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4633 COLUMBIA UNIVERSITY **7038**
HARD X-RAY EMISSION OF X-RAY BURSTERS
05/21/1997 – 05/31/1998 FY97: $15,190 Total: $15,190
Prin. Invest.: P KAARET
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4634 COLUMBIA UNIVERSITY **7039**
X-RAY EMISSION FROM THE SOFT X-RAY TRANSIENT AQUIL
05/30/1997 – 05/14/1998 FY97: $10,000 Total: $10,000
Prin. Invest.: M TAVANI
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 4649 COLUMBIA UNIVERSITY **7040**
EARLY DIFFERENTIATION OF THE MOON:EXPERIMENTAL AND
06/11/1997 – 05/31/1998 FY97: $120,000 Total: $120,000
Prin. Invest.: D LONGHI
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4734 COLUMBIA UNIVERSITY **7041**
WHITE DWARF PULSARS
06/04/1997 – 06/14/1998 FY97: $20,711 Total: $20,711
Prin. Invest.: J PATTERSON
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4759 COLUMBIA UNIVERSITY **7042**
OBSERVATIONS OF THE NEUTRON STAR RXJ0002.9+6246
06/17/1997 – 05/31/1998 FY97: $7,600 Total: $7,600
Prin. Invest.: C J HAILEY
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 4789 COLUMBIA UNIVERSITY **7043**
SEARCH FOR PULSATIONS FROM A NEARBY MILLISECOND PU 49: MIRROR FOR A HIDDEN SEYFERT 1 NUCLEUS
06/17/1997 – 06/30/1998 FY97: $14,000 Total: $14,000
Prin. Invest.: J HALPERN
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 4827 COLUMBIA UNIVERSITY **7044**
X–RAY EMISSION FROM THE UNIDENTIFIED GAMMA–RAY TRA
06/20/1997 – 06/30/1998 FY97: $15,100 Total: $15,100
Prin. Invest.: M TAVANI
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 4971 COLUMBIA UNIVERSITY **7045**
PHOTOCHEMISTRY OF METHANE IN MODEL ATMOSPHERES OF
06/23/1997 – 06/14/1998 FY97: $75,000 Total: $75,000
Prin. Invest.: D BERSOHN
Tech. Officer: GSFC/S HOWARD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 5108 COLUMBIA UNIVERSITY **7046**
LXEGRIT: A LIQUID XENON GAMMA–RAY IMAGING TELE– SCOPE FOR HIGH ENERGY ASTROPHYSICS
02/11/1997 – 11/30/1997 FY97: $481,000 Total: $481,000
Prin. Invest.: E APRILE
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5119 COLUMBIA UNIVERSITY **7047**
REFLIGHT OF THE GAMMA–RAY ARCMINUTE TELESCOPE IMAGING SYSTEM (GRATIS) PAYLOAD
04/09/1997 – 11/30/1997 FY97: $46,969 Total: $46,969
Prin. Invest.: C HALLEY
Tech. Officer: GSFC/H NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5123 COLUMBIA UNIVERSITY **7048**
X–RAY SPECTROSCOPIC LABORATORY EXPERIMENTS IN SUPPORT OF THE NASA X–RAY ASTRONOMY PROGRAM
02/20/1997 – 01/31/1998 FY97: $176,800 Total: $176,800
Prin. Invest.: S M KAHN
Tech. Officer: GSFC/B J FLOWERS
CASE Category: 13 – PHYSICS

NAG 5 5129 COLUMBIA UNIVERSITY **7049**
HIGH ENERGY FOCUSING TELESCOPE FUNDING FOR THE FIRST YEAR OF THE GRANT.
07/01/1997 – 12/31/1997 FY97: $268,000 Total: $268,000
Prin. Invest.: C HAILEY
Tech. Officer: GSFC/H NEEDLEMAN
CASE Category: 13 – PHYSICS

NAG 5 6232 COLUMBIA UNIVERSITY **7050**
X–RAY EMISSION FROM THE UNIDENTIFIED GAMMA–RAY TRA J1838–0415; X–RAY LOCALIZATION OF GAMMA–RAYTRANS
08/19/1997 – 08/14/1998 FY97: $27,200 Total: $27,200
Prin. Invest.: M TAVANI
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 6240 COLUMBIA UNIVERSITY **7051**
DETERMINATION OF RADIATIVE EFFECTS OF CONTRAILS AN
09/15/1997 – 08/31/1998 FY97: $52,600 Total: $52,600
Prin. Invest.: A MACKE
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 6294 COLUMBIA UNIVERSITY **7052**
DEVELOP A UNIQUE SHARED RESEARCH FACILITY IN WHICH FOCUS ON THE CHANGING ATMOSPHER
09/15/1997 – 09/14/1998 FY97: $75,000 Total: $75,000
Prin. Invest.: W BROECKER
Tech. Officer: GSFC/M KHAZENIE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 6315 COLUMBIA UNIVERSITY **7053**
MODELING STUDIES OF THE EFFECTS OF WINDS AND HEAT TROPICAL OCEAN
09/19/1997 – 09/30/1998 FY97: $139,359 Total: $139,359
Prin. Invest.: R SEAGER
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6321 COLUMBIA UNIVERSITY **7054**
THE BIO–ATMOSPHERIC CYCLES OF NITROGEN AND CARBON: POLLUTION AND TERRESTRIAL ECOSYSTEMS
09/09/1997 – 07/31/1998 FY97: $40,302 Total: $40,302
Prin. Invest.: E MATTHEWS
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6372 COLUMBIA UNIVERSITY **7055**
THE THEORETICAL CALCULATION AND VALIDATION OF THE ABSORPTION
09/25/1997 – 07/31/1998 FY97: $59,900 Total: $59,900
Prin. Invest.: D MA
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 916 COLUMBIA UNIVERSITY **7056**
MODELING STUDIES
07/01/1986 – 09/30/1997 FY97: $0 Total: $1,169,082
Prin. Invest.: M A CANE
Tech. Officer: HQ/G S LAGERLOEF, HQ/W S WILSON
CASE Category: 33 – OCEANOGRAPHY

NAGW 2013 COLUMBIA UNIVERSITY **7057**
DEVELOPMENT OF A HIGH RESOLUTION LIQUID XENON IMAG ING TELESCOPE FOR MEDIUM ENERGY GAMMA–RAY ASTROPH
02/27/1990 – 09/30/1997 FY97: $0 Total: $1,871,833
Prin. Invest.: E APRILE
Tech. Officer: HQ/L J KALUZIENSKI, HQ/A N BUNNER
CASE Category: 11 – ASTRONOMY

NAGW 2189 COLUMBIA UNIVERSITY **7058**
NAGW-2189/COLUMBIA UNIV/INVESTIGATIONS OF GLOBAL SHORT WAVE & PHOTOSYNTHETICALLY ACTIVE SURFACE
07/25/1990 – 09/30/1997 FY97: $120,000 Total: $527,343
Prin. Invest.: J K BISHOP, R N SAMBROTTO
Tech. Officer: HQ/M R LEWIS, HQ/W S WILSON
CASE Category: 33 – OCEANOGRAPHY

NAGW 2479 COLUMBIA UNIVERSITY **7059**
AGES AND ABUNDANCES OF BULGE POPULATIONS
05/07/1991 – 04/30/1997 FY97: $0 Total: $329,400
Prin. Invest.: R M RICH
Tech. Officer: HQ/G S KUTTER, HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 2507 COLUMBIA UNIVERSITY **7060**
THE ORIGIN OF THE COSMIC X-RAY BACKGROUND
06/17/1991 – 04/30/1996 FY97: $0 Total: $865,000
Prin. Invest.: D J HELFAND
Tech. Officer: HQ/G S KUTTER, HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 2565 COLUMBIA UNIVERSITY **7061**
ACCRETION PROCESSES IN CATACLYSMIC BINARIES
08/06/1991 – 04/30/1997 FY97: $0 Total: $610,603
Prin. Invest.: J O PATTERSON
Tech. Officer: HQ/G S KUTTER, HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 2668 COLUMBIA UNIVERSITY **7062**
NAGW-2668/COLUMBIA UNIV/A PRECALCULUS/CALCULUS MOD EL PROJECT TO INCREASE THE POOL OF AFRICAN HISPAN
09/17/1991 – 06/30/1996 FY97: $0 Total: $415,300
Prin. Invest.: G LOPEZ
Tech. Officer: JPL/Y FREEMAN, HQ/B L WHITE
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAGW 3362 COLUMBIA UNIVERSITY **7063**
SEA ICE ON THE SOUTHERN OCEAN
01/29/1993 – 02/28/1996 FY97: $0 Total: $327,344
Prin. Invest.: S S JACOBS
Tech. Officer: HQ/R H THOMAS, HQ/R A SCHIFFER
CASE Category: 33 – OCEANOGRAPHY

NAGW 3407 COLUMBIA UNIVERSITY **7064**
EXPERIMENTAL AND MODELING STUDIES OF MASSIF ANORTH OSITES
03/01/1993 – 02/28/1997 FY97: $0 Total: $117,482
Prin. Invest.: J LONGHI
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3434 COLUMBIA UNIVERSITY **7065**
EARLY DIFFERENTIATION OF THE MOON: EXPERIMENTAL AN D MODELING STUDIES
03/05/1993 – 05/31/1997 FY97: $0 Total: $461,284
Prin. Invest.: J LONGHI
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3539 COLUMBIA UNIVERSITY **7066**
DIRECT OBSERVATION OF WAVE INDUCED CHAOS
04/27/1993 – 07/31/1997 FY97: $0 Total: $221,299
Prin. Invest.: M E MAUEL
Tech. Officer: HQ/E C WHIPPLE, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4219 COLUMBIA UNIVERSITY **7067**
THE CHANCELLOR'S MODEL SCHOOL PROJECT
11/28/1994 – 08/31/1997 FY97: $514 Total: $455,322
Prin. Invest.: G J LOPAZ
Tech. Officer: HQ/B L WHITE
CASE Category: 76 – SOCIOLOGY

NAGW 4462 COLUMBIA UNIVERSITY **7068**
MARKERS FOR ASSESSING VERTEBRATE DEVELOPMENT IN SP ACE
05/04/1995 – 12/31/1997 FY97: $0 Total: $264,813
Prin. Invest.: W J WOLGEMUTH
Tech. Officer: HQ/T K SCOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4482 COLUMBIA UNIVERSITY **7069**
THE NEW X-RAY/GAMMA-RAY PULSARS
05/26/1995 – 06/14/1996 FY97: $0 Total: $90,000
Prin. Invest.: J HALPERN
Tech. Officer: HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 4589 COLUMBIA UNIVERSITY **7070**
IMPROVED SEA ICE/UPPER OCEAN MODELING IN THE GISS GCM FOR INVESTIGATING CLIMATE CHANGE
06/30/1995 – 09/30/1997 FY97: $143,184 Total: $203,761
Prin. Invest.: D G MARTINSON, R RIND, C PARKINSON
Tech. Officer: HQ/R H THOMAS, HQ/M BALTUCK
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4693 COLUMBIA UNIVERSITY **7071**
THEORETICAL CALCULATION AND VALIDATION OF THE WATE R VAPOR CONTINUUM ABSORPTION
08/11/1995 – 07/31/1998 FY97: $0 Total: $105,000
Prin. Invest.: Q MA
Tech. Officer: HQ/G ASRAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4734 COLUMBIA UNIVERSITY **7072**
A PROGRAM IN BROAD BANDWIDTH IMAGING GAMMA-RAY AST RONOMY
09/08/1995 – 06/30/1998 FY97: $0 Total: $255,668
Prin. Invest.: C HAILEY
Tech. Officer: HQ/L J KALUZIENSKI
CASE Category: 11 – ASTRONOMY

NAGW 4818 COLUMBIA UNIVERSITY **7073**
SUPERSHIELDS FOR GAMMA-RAY ASTRONOMY
10/19/1995 – 09/30/1998 FY97: $0 Total: $161,237
Prin. Invest.: C J HAILEY
Tech. Officer: HQ/DA HOLLAND, HQ/J H BREDEKAMP
CASE Category: 11 – ASTRONOMY

NAGW 5189 COLUMBIA UNIVERSITY **7074**
PARTICIPATION IN THE ARLINDO CRUISE IN THE INDONES IAN SEAS
09/19/1996 – 06/30/1997 FY97: $0 Total: $14,918
Prin. Invest.: D MARRA
Tech. Officer: HQ/N MAYNARD, HQ/R C HARRISS
CASE Category: 33 – OCEANOGRAPHY

NAGW 5216 COLUMBIA UNIVERSITY **7075**
GLOBAL OCEAN–ATMOSPHERE INTERACTIONS FORCED BY TID AL MIX-ING OF SST
11/18/1996 – 06/30/1997 FY97: $116,990 Total: $116,990
Prin. Invest.: A L FIELD
Tech. Officer: HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 5 97164 COLUMBIA UNIVERSITY **7076**
ACRIM SCIENCE TEAM
04/21/1997 – 04/20/2002 FY97: $234,000 Total: $234,000
Prin. Invest.: R C WILSON
Tech. Officer: GSFC/V GRIFFIN
CASE Category: 32 – GEOLOGICAL SCIENCE

NCC 5 34 COLUMBIA UNIVERSITY **7077**
MODELING OF OCEAN CIRCULATION AND ATMOSPHERIC CHEMICAL SYS-TEMS
11/15/1985 – 11/30/1997 FY97: $1,536,446 Total: $6,787,069
Prin. Invest.: C K CHU
Tech. Officer: GSFC/R STOTHERS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 5 44 COLUMBIA UNIVERSITY **7078**
MODELLING OF ATMOSPHERIC CIRCULATION AND CHEMISTRY
09/13/1991 – 02/28/1998 FY97: $190,000 Total: $2,492,431
Prin. Invest.: L POLVANI
Tech. Officer: GSFC/D PETEET
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 5 61 COLUMBIA UNIVERSITY **7079**
INTERDISCIPLINARY CLIMATE APPLICATIONS STUDIES
03/14/1994 – 03/31/1998 FY97: $195,895 Total: $1,533,481
Prin. Invest.: C E ROSENWEIG
Tech. Officer: GSFC/L D TRAVIS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 5 72 COLUMBIA UNIVERSITY **7080**
RAPID PALEOCLIMATIC CHANGE
06/28/1994 – 06/30/1997 FY97: $0 Total: $54,112
Prin. Invest.: G J KUKLA
Tech. Officer: GSFC/B A CARLSON
CASE Category: 32 – GEOLOGICAL SCIENCE

NCC 5 82 COLUMBIA UNIVERSITY **7081**
INTERDISCIPLINARY GLOBAL CHANGE RESEARCH
12/01/1994 – 12/31/1997 FY97: $2,985,517 Total: $4,143,811
Prin. Invest.: L DRUYAN
Tech. Officer: GSFC/A LACIS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 5 177 COLUMBIA UNIVERSITY **7082**
INTERDISCIPLINARY RESEARCH ON CLIMATE VARIABILITY AND THE IMPACTS ASSOCIATED WITH REGIONAL
01/08/1997 – 01/14/1998 FY97: $650,000 Total: $650,000
Prin. Invest.: M A CHANDLER
Tech. Officer: GSFC/D H RIND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 5 218 COLUMBIA UNIVERSITY **7083**
SEASONAL–TO–INTERANNUAL PREDICTION PROJECT
07/21/1997 – 06/30/1998 FY97: $56,669 Total: $56,669
Prin. Invest.: M STIEGLITZ
Tech. Officer: GSFC/R KOSTER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 5 225 COLUMBIA UNIVERSITY **7084**
THE EFFECTS OF RAINFALL ON SEASONAL TO INTERANNUAL TROPICAL OCEANS AND COUPLED CLIMATE PREDICTABILIT
08/13/1997 – 08/14/1998 FY97: $31,980 Total: $31,980
Prin. Invest.: D CHEN
Tech. Officer: GSFC/A J BUSALACCHI
CASE Category: 33 – OCEANOGRAPHY

NGT 30162 COLUMBIA UNIVERSITY **7085**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/24/1993 – 02/28/1997 FY97: $0 Total: $66,000
Prin. Invest.: R G FAIRBANKS
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 30166 COLUMBIA UNIVERSITY **7086**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/23/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: R BELL
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30171 COLUMBIA UNIVERSITY **7087**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/23/1993 – 08/31/1996 FY97: –$56 Total: $65,944
Prin. Invest.: W S BROECKER
Tech. Officer: HQ/GASRAR, HQ/D M BUTLER
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 30177 COLUMBIA UNIVERSITY **7088**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/23/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: D M PETEET
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30185 COLUMBIA UNIVERSITY **7089**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/23/1993 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: R G FAIRBANKS
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30186 COLUMBIA UNIVERSITY **7090**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/23/1993 – 02/28/1997 FY97: $0 Total: $66,000
Prin. Invest.: G BOND
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 33 – OCEANOGRAPHY

NGT 30217 COLUMBIA UNIVERSITY **7091**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/23/1993 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: A L GORDON
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 33 – OCEANOGRAPHY

NGT 30277 COLUMBIA UNIVERSITY **7092**
GLOBAL CHANGE FELLOWSHIP AWARD
10/02/1994 – 08/31/1998 FY97: $0 Total: $66,000
Prin. Invest.: W S BROECKER
Tech. Officer: HQ/J S THEON, HQ/G ASRAR
CASE Category: 33 – OCEANOGRAPHY

NGT 30278 COLUMBIA UNIVERSITY **7093**
GLOBAL CHANGE FELLOWSHIP AWARD
10/02/1994 – 08/31/1998 FY97: $0 Total: $66,000
Prin. Invest.: P N FROELICH
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30310 COLUMBIA UNIVERSITY **7094**
GLOBAL CHANGE FELLOWSHIP PROGRAM AWARD
07/22/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: J E HANSEN
Tech. Officer: HQ/R A SCHIFFER, HQ/G ASRAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 30337 COLUMBIA UNIVERSITY **7095**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/11/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: T TAKAHASHI
Tech. Officer: HQ/M BALTUCK, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 50777 COLUMBIA UNIVERSITY **7096**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/10/1991 – 12/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: C MARTIN
Tech. Officer: HQ/F C OWENS
CASE Category: 11 – ASTRONOMY

NGT 50792 COLUMBIA UNIVERSITY **7097**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/28/1991 – 05/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: C MARTIN
Tech. Officer: HQ/F C OWENS
CASE Category: 13 – PHYSICS

NGT 51038 COLUMBIA UNIVERSITY **7098**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/06/1993 – 12/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: P KAARET
Tech. Officer: JPL/C HIX
CASE Category: 13 – PHYSICS

NGT 5 44 COLUMBIA UNIVERSITY **7099**
RADIATIVE LINKS TO POLAR DYNAMICAL PROCESSES
06/23/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: A D DELGENIO
Tech. Officer: GSFC/M S BURRELL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 5 30016 COLUMBIA UNIVERSITY **7100**
INTERANNUAL SST VARIABILITY OF THE TROPICAL WESTER FROM CORAL SR/CA PROXY RECORDS FOR THE LAST1000
10/23/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: B P SCHLOSSER
Tech. Officer: GSFC/G ASRAR
CASE Category: 33 – OCEANOGRAPHY

NGT 5 30048 COLUMBIA UNIVERSITY **7101**
THIRD YEAR FUNDING: "RETRIEVAL OF TROPOSPHERIC AE SPACE BORNE POLARIZATION MEASUREMENTS"_____ST
09/06/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J HANSEN
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30079 COLUMBIA UNIVERSITY **7102**
THIRD YEAR FUNDING: AN INVESTIGATION OF THE PROCE THE PCO2 OF THE PACIFIC SECTOR OF THE SOUTHERN OC
09/11/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: T TAKAHASHI
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30123 COLUMBIA UNIVERSITY **7103**
AN INTERMEDIATE-LEVEL MODEL FOR THE TROPICAL ATMOS
09/30/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: M CANE
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50152 COLUMBIA UNIVERSITY **7104**
THE DEVELOPMENT OF THE REFLECTION GRATING SPECTROM ATORY AND ITS APPLICATION TO THE STUDY OF ACCRETI
09/11/1997 – 09/30/1998 FY97: $21,720 Total: $21,720
Prin. Invest.: S KAHN
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50158 COLUMBIA UNIVERSITY **7105**
ARCMINUTE GAMMA-RAY IMAGING OF CENTAURUS A
09/11/1997 – 06/30/1998 FY97: $21,720 Total: $21,720
Prin. Invest.: C HAILEY
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 8 52806 COLUMBIA UNIVERSITY **7106**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/01/1995 – 08/01/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: P KAARET
Tech. Officer: MSFC/B A HARMON
CASE Category: 13 – PHYSICS

NCC 2 5101 COOPER UNION **7107**
SIGNAL ANALYSIS OF PARTIALLY POLARIZED LIGHT REFLE CTED BY PLANT CANOPIES
09/16/1994 – 09/30/1996 FY97: $0 Total: $25,000
Prin. Invest.: F L FONTAINE
Tech. Officer: ARC/V C VANDERBILT
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 1 1184 CORNELL UNIVERSITY **7108**
CRACK GROWTH PREDICTION METHODOLOGY FOR MULTI-SITE DAMAGE FD
09/27/1990 – 09/30/1997 FY97: $98,581 Total: $832,459
Prin. Invest.: A R INGRAFFEA, D V SWENSON
Tech. Officer: LARC/J C NEWMAN, LARC/C E HARRIS
CASE Category: 46 – MECHANICAL ENGR

NAG 1 1311 CORNELL UNIVERSITY **7109**
MODE I/II FATIGUE CRACK GROWTH MEASUREMENTS IN 2024 ALUMINUM SHEET – FDP
08/08/1991 – 03/31/1997 FY97: –$1 Total: $349,836
Prin. Invest.: A R INGRAFFEA, A T ZEHNDER
Tech. Officer: LARC/J C NEWMAN, LARC/C E HARRIS
CASE Category: 46 – MECHANICAL ENGR

NAG 1 1542 CORNELL UNIVERSITY **7110**
PDF METHODS FOR COMBUSTION IN HIGH-SPEED TURBULENT FLOWS
08/27/1993 – 02/24/1997 FY97: –$1 Total: $200,000
Prin. Invest.: S B POPE
Tech. Officer: LARC/J P DRUMMOND
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 554 CORNELL UNIVERSITY **7111**
TILT ROTOR AIRCRAFT AEROCOUSTICS
01/01/1989 – 12/31/1996 FY97: $0 Total: $432,545
Prin. Invest.: A R GEORGE
Tech. Officer: ARC/C KITAPLIOGLU, ARC/W WARMBRODT
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 660 CORNELL UNIVERSITY **7112**
DEVELOPMENT AND EVALUATION OF SI BIB DETECTORS FO R SIRTF
07/31/1990 – 02/28/1997 FY97: $0 Total: $640,000
Prin. Invest.: T L HERTER
Tech. Officer: ARC/C R MCCREIGHT, ARC/R E MCMURRAY JR.
CASE Category: 11 – ASTRONOMY

NAG 2 800 CORNELL UNIVERSITY **7113**
KWIC: A WIDEFIELD MID-INFRARED ARRAY CAMERA/SPECT ROMETER FOR THE KAO
08/27/1992 – 02/28/1997 FY97: $0 Total: $709,456
Prin. Invest.: G STACEY
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 893 CORNELL UNIVERSITY **7114**
FORMAL SUPPORT FOR HIGH ASSURANCE SYSTEMS
04/06/1994 – 03/31/1998 FY97: $33,000 Total: $632,751
Prin. Invest.: F B SCHNEIDER
Tech. Officer: ARC/S LAU
CASE Category: 22 – COMPUTER SCIENCE

NAG 2 1030 CORNELL UNIVERSITY **7115**
ANALYSIS OF STELLAR OCCULTATION & IMAGING DATA FOR THE RINGS OF SATRUN URANUS
03/06/1996 – 12/31/1997 FY97: $15,600 Total: $36,618
Prin. Invest.: P D NICHOLSON
Tech. Officer: ARC/J N CUZZI
CASE Category: 11 – ASTRONOMY

NAG 2 1034 CORNELL UNIVERSITY **7116**
SOFIA SCIENCE WORKING GROUP
04/03/1996 – 10/31/1997 FY97: $0 Total: $11,275
Prin. Invest.: G J STACEY
Tech. Officer: ARC/E F ERICKSON
CASE Category: 11 – ASTRONOMY

NAG 2 1052 CORNELL UNIVERSITY **7117**
FOCUS: A FAINT-OBJECT SPECTROGRAPH FOR SOFIA
07/01/1996 – 10/31/1997 FY97: $0 Total: $74,450
Prin. Invest.: T L HERTER
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 1066 CORNELL UNIVERSITY **7118**
SWIFT: A WIDEFIELD IMAGING FABRY-PEROT FOR SOFIA
07/22/1996 – 12/31/1997 FY97: $0 Total: $120,000
Prin. Invest.: G J STACEY
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 1071 CORNELL UNIVERSITY **7119**
ANALYSIS OF SLLL & SILL OBSERVATIONS OF ORION & TH E GALACTIC CENTER
08/09/1996 – 05/31/1997 FY97: $0 Total: $32,000
Prin. Invest.: T L HERTER
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 1072 CORNELL UNIVERSITY **7120**
KIWC: A WIDEFIELD MID INFRARED ARRAY CAMERA/SPECT ROMETER FOR THE DAO
08/09/1996 – 12/31/1997 FY97: $0 Total: $57,500
Prin. Invest.: G J STACEY
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 1145 CORNELL UNIVERSITY **7121**
EXALUATION OF LOW BACKGROUND HIGH PERFORMANCE SI I BC DETECTORS
07/22/1997 – 05/31/1998 FY97: $41,047 Total: $41,047
Prin. Invest.: T L HERTER
Tech. Officer: ARC/C R MCCREIGHT, ARC/R E MCMURRAY
CASE Category: 11 – ASTRONOMY

NAG 3 1401 CORNELL UNIVERSITY **7122**
FLOW-INFLUENCED SHAPE STABILITY IN LOW GRAVITY
12/23/1992 – 12/31/1996 FY97: $0 Total: $271,159
Prin. Invest.: P H STEEN
Tech. Officer: LERC/A T CHAI
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1451 CORNELL UNIVERSITY **7123**
NUMERICAL MODELING OF LOW-DENSITY PLUMES USING A M ONTE CARLO TECHNIQUE
03/12/1993 – 11/30/1997 FY97: $55,500 Total: $330,499
Prin. Invest.: I D BOYD
Tech. Officer: LERC/P F PENKO
CASE Category: 13 – PHYSICS

NAG 3 1570 CORNELL UNIVERSITY **7124**
HISTORY DEPENDENT TURBULENCE MODELING
02/15/1994 – 02/29/1996 FY97: $0 Total: $104,959
Prin. Invest.: J LUMLEY
Tech. Officer: LERC/LA POVINELLI
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1791 CORNELL UNIVERSITY **7125**
MULTICOMPONENT DROPLET COMBUSTION IN MICROGRAVITY SOOT FORMATION, EMULSION, METTAL-BASE ADDITIVES AN
09/27/1995 – 09/25/1999 FY97: $90,000 Total: $168,000
Prin. Invest.: C T AVEDISIAN
Tech. Officer: LERC/R O COLANTONIO
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1854 CORNELL UNIVERSITY **7126**
STABILITY OF SHAPE HELD BY SURFACE TENSION AND SUB JECTED TO FL9OW
05/01/1996 – 04/30/2000 FY97: $83,000 Total: $192,003
Prin. Invest.: P H STEEN
Tech. Officer: LERC/B S SINGH
CASE Category: 43 – CHEMICAL ENGR

NAG 3 1958 CORNELL UNIVERSITY **7127**
MODELING OF PLUME CONTAMINATION ON THE X-33
08/20/1996 – 12/17/1997 FY97: $128,400 Total: $168,400
Prin. Invest.: I D BOYD, D A CAUGHEY
Tech. Officer: LERC/B D REED
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 3 1969 CORNELL UNIVERSITY **7128**
HISTORY DEPENDENT TURBULENCE MODELING
09/23/1996 – 03/19/1998 FY97: $33,943 Total: $53,943
Prin. Invest.: J LUMLEY
Tech. Officer: LERC/L A POUINELLI
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1993 CORNELL UNIVERSITY **7129**
SIMULATION OF CRACK GROWTH IN SPRIAL-BEVEL GEARS
12/11/1996 – 12/05/1999 FY97: $68,174 Total: $68,174
Prin. Invest.: A R INGRAFFEA
Tech. Officer: LERC/D G LOWICKI
CASE Category: 46 – MECHANICAL ENGR

NAG 5 691 CORNELL UNIVERSITY **7130**
SOUNDING OF THE CLEFT ION FOUNTAIN ENERGIZATION REGION (SCIFER)
05/26/1992 – 05/31/1997 FY97: $0 Total: $553,000
Prin. Invest.: P KINTNER
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 2436 CORNELL UNIVERSITY **7131**
MULTIWAVELENGTH STUDIES OF ROTATION – DRIVEN PULSA RS
11/16/1993 – 01/31/1998 FY97: $0 Total: $138,696
Prin. Invest.: J M CORDES
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2762 CORNELL UNIVERSITY **7132**
A TOOLKIT FOR MODELING THE SPATIAL/INTENSITY DISTR IBUTION OF GAMMA-RAY BURSTS USING BATSE DATA
10/21/1994 – 10/31/1996 FY97: $0 Total: $73,311
Prin. Invest.: I M WASSERMAN
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2809 CORNELL UNIVERSITY **7133**
ASTROPHYSICAL STUDIES OF COMPACT STARS ON THE SUPE RCOM-PUTER
12/08/1994 – 08/31/1996 FY97: $0 Total: $166,000
Prin. Invest.: S L SHAPIRO
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2851 CORNELL UNIVERSITY **7134**
NEUTRO STAR POPULATION DYNAMICS
12/21/1994 – 01/14/1998 FY97: $0 Total: $156,000
Prin. Invest.: D F CHERNOFF
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2985 CORNELL UNIVERSITY **7135**
LANDSLIDING, TOPOGRAPHY AND SEISMICITY: A PROPOSAL FOR THE NASA TOPOGRAPHY AND SURFACE CHANGE PROGRA
06/28/1995 – 07/14/1997 FY97: $25,000 Total: $75,000
Prin. Invest.: B L ISACKS
Tech. Officer: GSFC/H V FREY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 3097 CORNELL UNIVERSITY **7136**
THEORETICAL PHYSICS OF X-RAY AND GAMMA-RAY EMISSION FROM MAGNETIZED NEUTRON STARS
10/10/1995 – 10/14/1997 FY97: $0 Total: $128,000
Prin. Invest.: I M WASSERMAN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3302 CORNELL UNIVERSITY **7137**
X-RAY AND RADIO FLUCTUATIONS OF THE CRAB PULSAR
07/23/1996 – 01/31/1998 FY97: $0 Total: $27,100
Prin. Invest.: J CORDES
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3347 CORNELL UNIVERSITY **7138**
ISO DATA ANALYSIS SUPPORT
08/12/1996 – 08/14/1997 FY97: $71,000 Total: $271,264
Prin. Invest.: G J HARWIT
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3427 CORNELL UNIVERSITY **7139**
DEVELOPMENT AND APPLICATION OF NEW TOOLS FOR STATI DISCRETE ASTROPHYSICAL DATA
09/26/1996 – 09/30/1997 FY97: $0 Total: $105,653
Prin. Invest.: T J LOREDO
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3515 CORNELL UNIVERSITY **7140**
MULTIWAVELENGTH STUDIES OF SPIN–DRIVEN PULSARS
01/22/1997 – 01/31/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: J M CORDES
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3626 CORNELL UNIVERSITY **7141**
PHYSICAL STUDIES OF PLANETARY AND SATELLITE SURFACE
02/12/1997 – 10/31/1997 FY97: $127,000 Total: $127,000
Prin. Invest.: J VEVERKA
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3627 CORNELL UNIVERSITY **7142**
SHAPES, SURFACES AND INTERIORS OF SATELLITES
02/12/1997 – 09/30/1997 FY97: $35,000 Total: $35,000
Prin. Invest.: P C THOMAS
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3639 CORNELL UNIVERSITY **7143**
STUDY OF THE EFFECTS OF PHOTOMETRIC GEOMETRY ON SP MEASUREMENTS
02/12/1997 – 09/30/1997 FY97: $50,000 Total: $50,000
Prin. Invest.: P HELFENSTEIN
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3795 CORNELL UNIVERSITY **7144**
DYNAMICAL STUDIES OF PLANETARY RINGS
03/24/1997 – 09/30/1997 FY97: $56,300 Total: $56,300
Prin. Invest.: P D NICHOLSON
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3800 CORNELL UNIVERSITY **7145**
STATISTICS OF GAMMA RAY BURSTS
11/27/1996 – 11/30/1997 FY97: $35,000 Total: $35,000
Prin. Invest.: I M WASSERMAN
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3862 CORNELL UNIVERSITY **7146**
STUDIES OF THERMAL STRUCTURES AND MOTIONS OF PLANE
01/24/1997 – 11/30/1997 FY97: $103,000 Total: $103,000
Prin. Invest.: D J GIERABCH
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 3910 CORNELL UNIVERSITY **7147**
PHYSICAL PROCESSES IN PLANETARY RINGS
03/07/1997 – 12/31/1997 FY97: $173,600 Total: $173,600
Prin. Invest.: D A BURNS
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4189 CORNELL UNIVERSITY **7148**
STUDIES OF SATELLITE AND PLANETARY ATMOSPHERES
03/24/1997 – 06/30/1998 FY97: $45,000 Total: $45,000
Prin. Invest.: D MCDONALD
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4205 CORNELL UNIVERSITY **7149**
STUDIES IN PLANETARY GEOSCIENCES
03/19/1997 – 09/30/1997 FY97: $75,000 Total: $75,000
Prin. Invest.: S W SQUYRES
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4220 CORNELL UNIVERSITY **7150**
SURFACE PROPERTIES FROM RADAR AND RADIO OBSERVATIO
03/15/1997 – 02/28/1998 FY97: $51,900 Total: $51,900
Prin. Invest.: D B CAMPBELL
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4221 CORNELL UNIVERSITY **7151**
THERMAL INFRARED OBSERVATIONS OF MARS
03/19/1997 – 12/31/1997 FY97: $11,126 Total: $11,126
Prin. Invest.: D SQUYRES
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 4222 CORNELL UNIVERSITY **7152**
COST OPTIMIZATION OF MENUS AND FOOD PREPARATION FO CELSS STATIONS
03/15/1997 – 03/14/1998 FY97: $137,178 Total: $137,178
Prin. Invest.: J B HUNTER
Tech. Officer: GSFC/M AVERNER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 4229 CORNELL UNIVERSITY **7153**
INVESTIGATION OF ANCIENT HIGHLAND/LACUSTRINE SITES ON MARS
03/21/1997 – 03/31/1999 FY97: $40,000 Total: $40,000
Prin. Invest.: D W SQUYRES
Tech. Officer: GSFC/M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4333 CORNELL UNIVERSITY **7154**
MARS SURFACE MINERALOGY FROM HST AND MARINER 6.7 I
04/25/1997 – 04/30/1998 FY97: $25,000 Total: $25,000
Prin. Invest.: D F BELL
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4361 CORNELL UNIVERSITY **7155**
IMPLICATIONS OF EPISODIC SUBDUCTION
04/09/1997 – 03/31/1998 FY97: $35,000 Total: $35,000
Prin. Invest.: D L TURCOTTE
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4364 CORNELL UNIVERSITY **7156**
INTERDISCIPLINARY STUDIES OF COMPARATIVE PLANETOLO
04/16/1997 – 04/14/1998 FY97: $73,000 Total: $73,000
Prin. Invest.: D SQUYRES
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4376 CORNELL UNIVERSITY **7157**
DEVELOPMENT OF AN EFFICIENT MID–INFRARED CROSS–DIS GRAPH
05/08/1997 – 04/30/1998 FY97: $250,000 Total: $250,000
Prin. Invest.: D R HOUCK
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 4464 CORNELL UNIVERSITY **7158**
ELECTRON AND ION ACCELERATION BY ALFVEN WAVE BREAK
05/21/1997 – 05/14/1998 FY97: $71,000 Total: $71,000
Prin. Invest.: D E SEYLER
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 4502 CORNELL UNIVERSITY **7159**
OPERATE THE SPACECRAFT PLANETARY IMAGING FACILITY
05/06/1997 – 12/31/1997 FY97: $37,000 Total: $37,000
Prin. Invest.: D VEVERKA
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4503 CORNELL UNIVERSITY **7160**
SPIFI: AN IMAGING FABRY–PEROT FOR USE ON AST/RO
05/06/1997 – 03/31/1998 FY97: $97,351 Total: $97,351
Prin. Invest.: D J STACEY
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 4504 CORNELL UNIVERSITY **7161**
LABORATORY MEASUREMENTS OF CELESTIAL SOLIDS
05/06/1997 – 04/30/1998 FY97: $72,000 Total: $72,000
Prin. Invest.: D J SIEVERS
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 4673 CORNELL UNIVERSITY **7162**
MARS 96 PARTICIPATING SCIENTIST PROGRAM
06/17/1997 – 05/31/1998 FY97: $25,000 Total: $25,000
Prin. Invest.: D W SQUYRES
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4677 CORNELL UNIVERSITY **7163**
ELASTIC AND THERMAL MEAS–AMORPHOUS AND CRYSTALLINE
08/08/1997 – 02/28/1998 FY97: $55,000 Total: $55,000
Prin. Invest.: D O POHL
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4721 CORNELL UNIVERSITY **7164**
COORDINATED STUDY OF ATMOSPHERIC AND SURFACE CHANG OBSERVER AND OTHER DATA
06/05/1997 – 10/31/1997 FY97: $80,000 Total: $80,000
Prin. Invest.: D VEVERKA
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 4975 CORNELL UNIVERSITY **7165**
TEMPLATE REACTIONS AND CHEMICAL EVOLUTION
07/01/1997 – 07/31/1998 FY97: $81,315 Total: $81,315
Prin. Invest.: D A USHER
Tech. Officer: GSFC/M MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 5008 CORNELL UNIVERSITY **7166**
AMICIST AURORAL MICROPHYSICS AND ION CONICS: INVESTIGA–
05/12/1993 – 12/31/1997 FY97: $40,000 Total: $505,103
Prin. Invest.: P KINTNER
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 5009 CORNELL UNIVERSITY **7167**
AMICIST A STUDY OF ELECTROMAGNETIC PULSE FROM LIGHTNING &
05/12/1993 – 12/31/1996 FY97: $0 Total: $541,506
Prin. Invest.: M C KELLEY
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 5036 CORNELL UNIVERSITY **7168**
AN EXPERIMENT TO STUDY SPORADIC ATOM LAYERS IN THE EARTH'S MESOSPHERE AND LOWER THERMOSPHERE
04/25/1995 – 12/31/1997 FY97: $182,727 Total: $377,296
Prin. Invest.: M C KELLEY
Tech. Officer: GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 5038 CORNELL UNIVERSITY **7169**
A CO–INVESTIGATOR PROPOSAL FOR THE STUDY OF AURORAL TURBU-LENCE
06/07/1995 – 01/31/1998 FY97: $53,028 Total: $126,965
Prin. Invest.: M C KELLEY
Tech. Officer: GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 5045 CORNELL UNIVERSITY **7170**
ARECIBO SUPPORT FOR STUDIES OF SPORADIC METALLIC LAYERS IN THE EARTH'S MESOSPHERE & LOWER THERMOSPH
07/28/1995 – 08/31/1998 FY97: $0 Total: $80,078
Prin. Invest.: C A TEPLEY
Tech. Officer: GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 5079 CORNELL UNIVERSITY **7171**
CLEFT ACCELERATED PLASMAS EXPERIMENT ROCKET (CAPER FUNDING FOR THE FIRST YEAR OF THE GRANT
05/15/1996 – 05/31/1998 FY97: $215,173 Total: $333,135
Prin. Invest.: P KINTNER
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 – PHYSICS

NAG 5 5080 CORNELL UNIVERSITY **7172**
LANGMUIR TURBULENCE ROCKET
06/12/1996 – 04/30/1998 FY97: $190,854 Total: $210,854
Prin. Invest.: M C KELLEY
Tech. Officer: GSFC/L WGURKIN
CASE Category: 13 – PHYSICS

NAG 5 5134 CORNELL UNIVERSITY **7173**
CO–INVESTIGATOR PROPOSAL FOR ENSTROPHY– FILAMENTATION OF AWARD CURRENTS
04/14/1997 – 03/31/1998 FY97: $73,336 Total: $73,336
Prin. Invest.: P KINTNER
Tech. Officer: GSFC/W JOHNSON
CASE Category: 13 – PHYSICS

NAG 5 6111 CORNELL UNIVERSITY **7174**
CLIMATE, EROSION, AND TECTONICS IN THE ANDES AND O
07/28/1997 – 03/31/1998 FY97: $112,500 Total: $112,500
Prin. Invest.: B ISACKS
Tech. Officer: GSFC/M BATLUCK
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6273 CORNELL UNIVERSITY **7175**
BIOLOGICAL AND PHYSICAL CONTROLS OF PRIMARY PRODUC SUBSEQUENT FATE IN THE GEORGES BANK REGION: AN IN
08/29/1997 – 10/31/1998 FY97: $91,702 Total: $91,702
Prin. Invest.: G CHARLES
Tech. Officer: GSFC/J JODER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6281 CORNELL UNIVERSITY **7176**
COMPLEXITY AND NATURAL HAZARDS
09/18/1997 – 05/30/1998 FY97: $69,683 Total: $69,683
Prin. Invest.: D L TURCOTTE
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 8 1357 CORNELL UNIVERSITY **7177**
R/S "DEFECTS, GROWTH, & ELASTIC PROPERTIES OF PROTEIN CRYSTALS"
05/15/1997 – 11/30/1997 FY97: $69,000 Total: $69,000
Prin. Invest.: R THORNE
Tech. Officer: MSFC/M PUSEY
CASE Category: 12 – CHEMISTRY

NAG 8 1372 CORNELL UNIVERSITY **7178**
R/S ENHANCEMENT OF CELL FUNCTION IN CULTURE BY CONTROLLED AGGREGATION UNDER MICROGRAVITY CONDITIO
06/18/1997 – 11/30/1997 FY97: $70,000 Total: $70,000
Prin. Invest.: W M SATTMAN
Tech. Officer: JSC/W M SATTMAN
CASE Category: 13 – PHYSICS

NAG 9 654 CORNELL UNIVERSITY **7179**
ENHANCEMENT OF CELL FUNCTION IN CULTURE BY CONTROL LED AGGREGATION
10/28/1992 – 07/31/1998 FY97: $0 Total: $510,000
Prin. Invest.: W M SALTZMAN, K W LEONG
Tech. Officer: JSC/S GONDA
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 9 849 CORNELL UNIVERSITY **7180**
SELECTION OF CULTIVARS FOR USE IN CELSS HRTF TRIAL S
09/22/1995 – 03/31/1997 FY97: $0 Total: $25,000
Prin. Invest.: D LANGHANS
Tech. Officer: JSC/K HENDERSON
CASE Category: 55 – AGRICULTURE

NAGW 310 CORNELL UNIVERSITY **7181**
"STUDIES OF PLANETARY RINGS"
03/15/1982 – 06/30/1997 FY97: $0 Total: $1,448,354
Prin. Invest.: J A BURNS
Tech. Officer: HQ/J UNDERWOOD, HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 544 CORNELL UNIVERSITY **7182**
DYNAMICAL STUDIES OF SATURN'S RINGS
03/01/1984 – 06/30/1997 FY97: $0 Total: $500,935
Prin. Invest.: P D NICHOLSON
Tech. Officer: HQ/J R UNDERWOOD, HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1023 CORNELL UNIVERSITY **7183**
GEOLOGIC STUDIES OF MARS AND OUTER PLANETS
11/01/1986 – 06/30/1997 FY97: $0 Total: $1,162,759
Prin. Invest.: S SQUYRES
Tech. Officer: HQ/J UNDERWOOD, HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1420 CORNELL UNIVERSITY **7184**
IMPLICATIONS OF CONVECTION WITHIN THE MOON & TERR. PLANETS
08/18/1988 – 09/30/1996 FY97: $0 Total: $195,500
Prin. Invest.: D L TURCOTTE
Tech. Officer: HQ/J R UNDERWOOD
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1870 CORNELL UNIVERSITY **7185**
INTERDISCIPLINARY INVESTIGATIONS OF COMPARATIVE PL ANETOLOGY
03/13/1990 – 06/30/1997 FY97: $0 Total: $488,685
Prin. Invest.: C SAGAN
Tech. Officer: HQ/T A MAXWELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1896 CORNELL UNIVERSITY **7186**
EXOBIOLOGY AND THE ORIGIN OF LIFE
11/16/1989 – 06/30/1997 FY97: $0 Total: $1,294,359
Prin. Invest.: C SAGAN
Tech. Officer: HQ/M MEYER
CASE Category: 12 – CHEMISTRY

NAGW 1997 CORNELL UNIVERSITY **7187**
STUDIES OF THERMAL STRUCTURES AND MOTIONS OF PLANE TARY ATMOSPHERES
03/16/1990 – 11/30/1996 FY97: $0 Total: $705,413
Prin. Invest.: P GIERASCH
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAGW 2084 CORNELL UNIVERSITY **7188**
STUDY OF THE EFFECTS OF PHOTOMETRIC GEOMETRY ON SP ECTRAL REFLECTANCE MEASUREMENTS
05/30/1990 – 06/30/1997 FY97: $0 Total: $406,500
Prin. Invest.: D HELFENSTEIN
Tech. Officer: HQ/H BRINTON
CASE Category: 11 – ASTRONOMY

NAGW 2149 CORNELL UNIVERSITY **7189**
SPACECRAFT PLANETARY IMAGING FACILITY
06/13/1990 – 06/30/1997 FY97: $0 Total: $232,462
Prin. Invest.: J VEVERKA
Tech. Officer: HQ/T A MAXWELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2186 CORNELL UNIVERSITY **7190**
PHYSICAL STUDIES OF PLANETARY AND SATELLITE SURFAC ES
03/01/1991 – 09/30/1998 FY97: $0 Total: $457,272
Prin. Invest.: J VEVERKA
Tech. Officer: HQ/T A MAXWELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2293 CORNELL UNIVERSITY **7191**
MAGNETOHYDRODYNAMICS OF PROTOSTELLAR NEBULAE
05/22/1991 – 04/30/1997 FY97: $20,000 Total: $120,000
Prin. Invest.: LOVELACE
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 2374 CORNELL UNIVERSITY **7192**
IN SITU INVESTIGATION MARTIAN VOLATILES, GEOCHEMIS TRY,AND MIN-ERALOGY
07/09/1991 – 05/31/1997 FY97: $0 Total: $150,803
Prin. Invest.: S SQUYRES
Tech. Officer: HQ/W L QUAIDE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 2551 CORNELL UNIVERSITY **7193**
NAGW-2551/AN INFRARED CAMERA/SPECTROGRAPH FOR THE PALOMAR OBSERVATORY
06/11/1991 – 12/31/1997 FY97: $0 Total: $611,000
Prin. Invest.: J R HOUCK
Tech. Officer: HQ/M D BICAY
CASE Category: 11 – ASTRONOMY

NAGW 2638 CORNELL UNIVERSITY **7194**
TECTONIC/CLIMATIC DYNAMICS AND CRUSTAL EVOLUTION I N THE ANDEAN OROGEN
08/02/1991 – 03/31/1998 FY97: $0 Total: $2,145,000
Prin. Invest.: B ISACKS, T E JORDAN, A L BLOOM
Tech. Officer: HQ/M BALTUCK, HQ/B J MALCOLM
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 2768 CORNELL UNIVERSITY **7195**
LABORATORY MEASUREMENTS OF CELESTIAL SOLIDS
11/15/1991 – 04/30/1996 FY97: $0 Total: $314,903
Prin. Invest.: A J SIEVERS, S V BECKWITH
Tech. Officer: HQ/L J CAROFF, HQ/M D BICAY
CASE Category: 11 – ASTRONOMY

NAGW 3273 CORNELL UNIVERSITY **7196**
STUDIES OF SATELLITE AND PLANETARY ATMOSPHERES
11/16/1992 – 10/31/1997 FY97: $0 Total: $293,880
Prin. Invest.: C SAGAN
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3275 CORNELL UNIVERSITY **7197**
NAGW-3275/CORNELL UNIV/SHAPES, SURFCES AND INTERIO RS OF SAT-ELLITES AND ASTEROIDS
11/13/1992 – 10/31/1997 FY97: $0 Total: $140,477
Prin. Invest.: P C THOMAS
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3320 CORNELL UNIVERSITY **7198**
SMALL BODIES SCIENCE WORKING GROUP
12/31/1992 – 12/31/1996 FY97: $0 Total: $190,949
Prin. Invest.: J VEVERKA
Tech. Officer: HQ/C B PILCHER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3341 CORNELL UNIVERSITY **7199**
NAGW-3341/CORNELL UNIV/GRAVITY-INDUCED POLARITY OF TRANS-PORT IN PLANTS
01/26/1993 – 05/31/1997 FY97: $0 Total: $278,575
Prin. Invest.: R WAYNE
Tech. Officer: HQ/T W HALSTEAD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 3837 CORNELL UNIVERSITY **7200**
NAGW-3837/B CORNELL UNIV. "COORDINATED STUDY OF A TMOS. AND SURFACE CHANGES.." 11/1/93 START
12/17/1993 – 10/31/1996 FY97: $80,000 Total: $200,501
Prin. Invest.: J VEVERKA
Tech. Officer: HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NAGW 3925 CORNELL UNIVERSITY **7201**
CORNELL UNIV; SPIFI: AN IMAGING FABRY-PEROT SPECTR OMETER FOR USE ON AST/RO
04/14/1994 – 03/31/1997 FY97: $0 Total: $201,187
Prin. Invest.: G STACEY
Tech. Officer: HQ/L J CAROFF, HQ/L J CAROFF
CASE Category: 11 – ASTRONOMY

NAGW 3985 CORNELL UNIVERSITY **7202**
"SURFACE_PROPERTIES OF THE MOON, VENUS AND SMALL BODIES FROM RADAR"
05/20/1994 – 08/31/1997 FY97: $0 Total: $123,967
Prin. Invest.: D CAMPBELL
Tech. Officer: HQ/R WILLIAMS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 4449 CORNELL UNIVERSITY **7203**
SIMULATIONS OF THE FARLEY-BUNEMAN INSTABILITY IN THE E-REGION IONOSPHERE
05/04/1995 – 09/30/1997 FY97: $0 Total: $128,000
Prin. Invest.: N F OTANI
Tech. Officer: HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4469 CORNELL UNIVERSITY **7204**
ELASTIC AND THERMAL MEASUREMENTS ON AMORPHOUS AND CRYS-TALLINE WATER ICE
05/13/1995 – 06/30/1997 FY97: $0 Total: $105,000
Prin. Invest.: R POHL
Tech. Officer: HQ/P G ROGERS
CASE Category: 13 – PHYSICS

NAGW 4594 CORNELL UNIVERSITY **7205**
THEORY AND SIMULATION OF LOWER HYBRID WAVES AND ASSOCIATED ION ACCELERATION IN THE AURORAL REGION
06/29/1995 – 04/30/1997 FY97: $0 Total: $145,000
Prin. Invest.: C E SEYLER
Tech. Officer: HQ/D J BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4655 CORNELL UNIVERSITY **7206**
THERMAL INFRARED OBSERVATIONS OF MARS
07/22/1995 – 12/31/1997 FY97: $0 Total: $45,762
Prin. Invest.: S SQUYRES
Tech. Officer: HQ/E BAKER
CASE Category: 11 – ASTRONOMY

NAGW 4702 CORNELL UNIVERSITY **7207**
COMPLEXITY AND NATURAL HAZARDS
08/11/1995 – 05/31/1997 FY97: $0 Total: $115,000
Prin. Invest.: D TURCOTTE
Tech. Officer: HQ/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4905 CORNELL UNIVERSITY **7208**
SHAPES, GEOLOGY AND PHOTOMETRY OF ASTEROIDS GASPRA AND IDA
01/30/1996 – 12/31/1997 FY97: $0 Total: $79,000
Prin. Invest.: P C THOMAS
Tech. Officer: HQ/J M BOYCE, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 4986 CORNELL UNIVERSITY **7209**
THE WAVELENGTH DEPENDENCE OF LUNAR PHOTOMETRIC PRO PERTIES
02/27/1996 – 12/31/1997 FY97: $0 Total: $90,000
Prin. Invest.: P HELFENSTEIN
Tech. Officer: HQ/J M BOYCE, HQ/J RAHE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 5062 CORNELL UNIVERSITY **7210**
MARS SURFACE MINERALOGY FROM HST AND MARINER 6.7 I MAGES AND SPECTRA
05/24/1996 – 04/30/1997 FY97: $0 Total: $25,000
Prin. Invest.: J B BELL
Tech. Officer: HQ/H BRINTON, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 5117 CORNELL UNIVERSITY **7211**
INFRARED IMAGING SPECTROSCOPY OF MARS & THE MOON
07/31/1996 – 07/31/1997 FY97: $0 Total: $20,000
Prin. Invest.: J F BELL
Tech. Officer: HQ/E BARKER, HQ/H C BRINTON
CASE Category: 11 – ASTRONOMY

NAGW 5228 CORNELL UNIVERSITY **7212**
RESEARCH (STUDIES)
10/09/1996 – 07/31/1997 FY97: $70,000 Total: $70,000
Prin. Invest.: D A USHER
Tech. Officer: HQ/M MEYER, HQ/H C BRINTON
CASE Category: 12 – CHEMISTRY

NAS 5 31723 CORNELL UNIVERSITY **7213**
EOS INVESTIGATION "GLOBAL HYDROLOGIC PROCESSES AND CLIMATE"
12/10/1991 – 08/31/1998 FY97: $60,000 Total: $683,250
Prin. Invest.: W BRUTSAET
Tech. Officer: GSFC/W LAU
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 3 468 CORNELL UNIVERSITY **7214**
MICROGRAVITY SEGREGATION IN BINARY MIXTURES OF INE LASTIC SPHERES DRIVEN BY VELOCITY FLUCTUATION GRA
04/22/1996 – 04/21/2000 FY97: $221,208 Total: $346,208
Prin. Invest.: J T JENKINS, M LOUGE
Tech. Officer: LERC/R HAKIMZADEH, LERC/E NELSON
CASE Category: 46 – MECHANICAL ENGR

NCC 5 84 CORNELL UNIVERSITY **7215**
OUTER PLANET ATMOSPHERIC STRUCTURE.
02/22/1995 – 02/28/1998 FY97: $97,764 Total: $281,933
Prin. Invest.: P J GIERASCH
Tech. Officer: GSFC/F M FLASAR
CASE Category: 11 – ASTRONOMY

NCC 5 132 CORNELL UNIVERSITY **7216**
RADIATIVE STUDIES OF PLANETARY ATMOSPHERES
02/14/1996 – 02/14/1998 FY97: $35,000 Total: $70,000
Prin. Invest.: P J GIERASCH
Tech. Officer: GSFC/M FLASAR
CASE Category: 11 – ASTRONOMY

NGT 30279 CORNELL UNIVERSITY **7217**
GLOBAL CHANGE FELLOWSHIP PROGRAM
10/06/1994 – 08/31/1997 FY97: $0 Total: $22,000
Prin. Invest.: W BRUTSAERT
Tech. Officer: HQ/J S THEON, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30283 CORNELL UNIVERSITY **7218**
NGT-30283/UNIV OF CA @ DAVIS/GLOBAL CHANGE FELLOWSHIP PROGRAM
10/02/1994 – 08/31/1996 FY97: -$4,245 Total: $39,755
Prin. Invest.: M B PARLANGE
Tech. Officer: HQ/R A SCHIFFER, HQ/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 40012 CORNELL UNIVERSITY **7219**
NATIONAL SPACE GRANT COLLEGE & FELLOWSHIP PROGRAM
10/04/1989 – 06/30/1997 FY97: $0 Total: $2,601,000
Prin. Invest.: Y TERZLAN-TERZLAN
Tech. Officer: HQ/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51075 CORNELL UNIVERSITY **7220**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/08/1993 – 06/30/1996 FY97: $0 Total: $66,000
Prin. Invest.: R W ZOBEL
Tech. Officer: HQ/R WHITE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 51147 CORNELL UNIVERSITY **7221**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/29/1993 – 08/31/1996 FY97: $0 Total: $62,500
Prin. Invest.: K COOK
Tech. Officer: HQ/G LESANE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 51211 CORNELL UNIVERSITY **7222**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/28/1994 – 07/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: W BRUTSAERT
Tech. Officer: GSFC/G SOFFEN
CASE Category: 55 – AGRICULTURE

NGT 51223 CORNELL UNIVERSITY **7223**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/29/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: B NICHOLSON, A L BLOOM
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 51329 CORNELL UNIVERSITY **7224**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/16/1994 – 08/22/1997 FY97: $0 Total: $66,000
Prin. Invest.: C E SAGAN
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51374 CORNELL UNIVERSITY **7225**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/30/1995 – 06/30/1998 FY97: $0 Total: $44,000
Prin. Invest.: K H COOK
Tech. Officer: HQ/A NOVOTING
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 51394 CORNELL UNIVERSITY **7226**
GSRP
06/16/1995 – 06/30/1998 FY97: $0 Total: $0
Prin. Invest.: S LIEBOVICH
Tech. Officer: JPL/C HICKS
CASE Category: 42 – ASTRONAUTICAL ENGR

NGT 51649 CORNELL UNIVERSITY **7227**
GRAD STUD RES PROG
08/05/1996 – 07/31/1997 FY97: $0 Total: $22,000
Prin. Invest.: P NICHOLSON
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51710 CORNELL UNIVERSITY **7228**
GRAD STUDENT RESEARCH PROGRAM
09/30/1996 – 08/31/1997 FY97: $0 Total: $22,000
Prin. Invest.: D SALTZMAN
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 43 – CHEMICAL ENGR

NGT 90239 CORNELL UNIVERSITY **7229**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
07/15/1994 – 08/14/1996 FY97: $0 Total: $30,000
Prin. Invest.: W S GREEN
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90283 CORNELL UNIVERSITY **7230**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
05/24/1995 – 08/14/1996 FY97: $0 Total: $24,000
Prin. Invest.: G E REHKUGLER
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 3 52318 CORNELL UNIVERSITY **7231**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/06/1996 – 06/30/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: D STEEN
Tech. Officer: LERC/D MONTEGANI/Q
CASE Category: 43 – CHEMICAL ENGR

NGT 5 17 CORNELL UNIVERSITY **7232**
PARAMETERIZATION OF EVAPORATION MODELS USING REMOT ELY SENSED SOIL MOISTURE DATA
07/15/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: W BRUTSAERT
Tech. Officer: GSFC/G SOFFEN
CASE Category: 11 – ASTRONOMY

NGT 5 51 CORNELL UNIVERSITY **7233**
SYNOPTIC–TO SEASONAL–SCALE INFLUENCES ON MID–LATIT RY ABOUT THE WEATHER
06/23/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: B L ISACKS
Tech. Officer: GSFC/M S BURRELL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 5 54 CORNELL UNIVERSITY **7234**
LARGE–SCALE SOIL MOISTURE AND ATMOSPHERIC WATER BU N RECYCLING IN THE SOUTHERN GREAT PLAINS BY INTEG
06/23/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D LUCAS
Tech. Officer: GSFC/M D HALL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 5 30038 CORNELL UNIVERSITY **7235**
THE INTERNAL NITROGEN CYCLE OF TEMPERATURE FORESTS MECH-ANISMS IN THE ABSENCE OF HUMAN DISTURBANCE
10/17/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: L O HEDIN
Tech. Officer: GSFC/G ASRAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 5 40019 CORNELL UNIVERSITY **7236**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
01/06/1997 – 01/31/1998 FY97: $380,000 Total: $380,000
Prin. Invest.: Y TERZIAN
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50027 CORNELL UNIVERSITY **7237**
PRE–AGGREGATION OF CELLS UNDER MICROGRAVITY CONDIT PLANTA-TION
07/15/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: M SALTZMAN
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50036 CORNELL UNIVERSITY **7238**
MICROGRAVITY–INDICED NERVOUS TISSUE FORMULATION US
07/14/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: S SALTZMAN
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90070 CORNELL UNIVERSITY **7239**
USAR FOR BRYAN VANDROVEC AND MELANIE DIEZ
05/19/1997 – 12/31/1997 FY97: $40,000 Total: $40,000
Prin. Invest.: K HOVER
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 22 – COMPUTER SCIENCE

NGT 9 12 CORNELL UNIVERSITY **7240**
CHARACTERIZATION OF VEGETABLE CROP CULT FOR ALSS
07/03/1996 – 09/30/1997 FY97: $2,400 Total: $24,400
Prin. Invest.: R W LANGHANS
Tech. Officer: JSC/D G SICKOREZ
CASE Category: 55 – AGRICULTURE

NGT 9 16 CORNELL UNIVERSITY **7241**
SELECTION & CHARAC OF VEG CROP CULTIVARS ...
05/16/1997 – 09/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: R W LANGHANS
Tech. Officer: JSC/D G SICKOREZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 9 17 CORNELL UNIVERSITY **7242**
DEV & EVAL SINGLE CELL OIL PRODUCT ...
05/16/1997 – 07/31/1998 FY97: $21,306 Total: $21,306
Prin. Invest.: J B HUNTER
Tech. Officer: JSC/D G SICKOREZ
CASE Category: 55 – AGRICULTURE

NGT10 52600 CORNELL UNIVERSITY **7243**
A GRADUATE STUDENT RESEARCHERS PROGRAM
06/20/1995 – 06/30/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: L ALBRIGHT
Tech. Officer: KSC/J SAGER
CASE Category: 59 – LIFE SCIENCE, OTHER

NGT10 52607 CORNELL UNIVERSITY **7244**
GRADUATE STUDENT RESEARCHERS PROGRAM
04/18/1996 – 12/31/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: C F JOHNSON
Tech. Officer: KSC/J SAGER
CASE Category: 55 – AGRICULTURE

NAG 8 1263 HARTWICK COLLEGE **7245**
STUDY JOVE
01/22/1997 – 08/31/1998 FY97: $68,000 Total: $68,000
Prin. Invest.: P T BUCKLEY, A F MOORE
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4678 HOFSTRA UNIVERSITY **7246**
OCEAN SURFACE STRESS MEASUREMENTS USING SATELLITE
05/27/1997 – 05/30/1998 FY97: $93,503 Total: $93,503
Prin. Invest.: D E WEISSMAN
Tech. Officer: GSFC/B C DOUGLAS
CASE Category: 33 – OCEANOGRAPHY

NAGW 5174 HOFSTRA UNIVERSITY **7247**
OCEAN SURFACE STRESS MEASUREMENTS USING SATELLITE SCAT-TEROMETERS
09/06/1996 – 05/31/1997 FY97: $0 Total: $87,041
Prin. Invest.: D WEISSMAN
Tech. Officer: HQ/B C DOUGLAS
CASE Category: 33 – OCEANOGRAPHY

NAG 5 3706 HUNTER COLLEGE **7248**
QUANTITATION OF BONE GROWTH RATE VARIABILITY IN RA (NEAR ZERO G) AND MACCROGRAVITY (2G)"
12/11/1996 – 09/30/1997 FY97: $28,000 Total: $28,000
Prin. Invest.: T G BROMAGE
Tech. Officer: GSFC/M A SHEPANEK
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 8 1259 HUNTER COLLEGE **7249**
JOVE RESEARCH
01/17/1997 – 08/31/1998 FY97: $148,000 Total: $148,000
Prin. Invest.: L COHEN, S GREENBAUM, P COMBS
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4817 HUNTER COLLEGE **7250**
QUANTITATION OF BONE GROWTH RATE VARIABILITY IN RA TS
10/06/1995 – 09/30/1998 FY97: $0 Total: $12,000
Prin. Invest.: T G BROMAGE
Tech. Officer: HQ/M A SHEPANEK
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 2 5091 HUNTER COLLEGE **7251**
HUMAN INDUCED LAND TRANSFORMATIONS: GROWTH MODELING WITH CELLULAR AUTOMATA
07/28/1994 – 06/30/1996 FY97: $0 Total: $47,674
Prin. Invest.: K C CLARKE
Tech. Officer: ARC/L GAYDOS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 8 1273 IONA COLLEGE **7252**
RESEARCH FOR JOVE
01/21/1997 – 08/31/1998 FY97: $42,000 Total: $42,000
Prin. Invest.: R NOVAK
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 11 – ASTRONOMY

NGT 90053 LA GUARDIA COMMINITY COLLEGE **7253**
UNDERGRADUATE STUDENT RESEARCHERS PRG
08/22/1991 – 08/31/1996 FY97: $0 Total: $288,262
Prin. Invest.: C WATKINS
Tech. Officer: HQ/D K RUSSELL
CASE Category: 45 – ELECTRICAL ENGR

NGT 5 90009 LA GUARDIA COMMINITY COLLEGE **7254**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
01/06/1997 – 08/14/1997 FY97: $96,000 Total: $96,000
Prin. Invest.: R MCLEOD
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 3480 MEDGAR EVERS COLLEGE **7255**
SCIENCE AND TECHNOLOGY TEACHERS FOR THE NEXT MILLE
02/11/1997 – 08/31/1997 FY97: $399,984 Total: $399,984
Prin. Invest.: L P JOHNSON
Tech. Officer: GSFC/M MATEU
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4657 MEDGAR EVERS COLLEGE **7256**
SCIENCE AND TECHNOLOGY TEACHERS FOR THE NEXT MILLE NIUM
08/02/1995 – 08/31/1998 FY97: $0 Total: $199,977
Prin. Invest.: L P JOHNSON
Tech. Officer: HQ/M MATEU
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 5 205 MEDGAR EVERS COLLEGE **7257**
MEDGAR EVERS COLLEGE OCEAN AND ENVIRONMENTAL SCIEN
06/11/1997 – 05/31/1998 FY97: $199,993 Total: $199,993
Prin. Invest.: L P JOHNSON
Tech. Officer: GSFC/A A LACIS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 2 706 MT SINAI SCH OF MED OF THE CUNY **7258**
VELOCITY STORAGE IN SPACE: ADAPTATION OF OPTOKIN ETIC NYSTAG-MUS & AFTER–NYSTAGMUSTO MICROGRAVITY
06/03/1991 – 12/31/1996 FY97: $0 Total: $507,600
Prin. Invest.: B COHEN, T RAPHAN
Tech. Officer: ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 895 MT SINAI SCH OF MED OF THE CUNY **7259**
OSTEOBLAST ADHESION & PHENOTYPE IN MICROGRAVITY
04/22/1994 – 12/31/1997 FY97: $26,313 Total: $137,860
Prin. Invest.: R J MAJESKA
Tech. Officer: ARC/E M HOLTON
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 946 MT SINAI SCH OF MED OF THE CUNY **7260**
ANATOMICAL STUDIES OF CENTRAL VESTIBULAR ADAPTATIO N
01/10/1995 – 11/30/1997 FY97: $74,013 Total: $263,546
Prin. Invest.: G R HOLSTEIN, G R HOLSTEIN
Tech. Officer: ARC/W E HINDS, ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 968 MT SINAI SCH OF MED OF THE CUNY **7261**
CHEMICAL ANATOMY OF CENTRAL VESTIBULAR ADAPTATION
03/27/1995 – 07/31/1996 FY97: $0 Total: $20,430
Prin. Invest.: G R HOLSTEIN
Tech. Officer: ARC/W E HINDS, ARC/C M WINGET
CASE Category: 56 – MEDICL

NAG 5 3052 MT SINAI SCH OF MED OF THE CUNY **7262**
ANALYSIS, REPAIR, AND MANAGEMENT OF THE TOTAL OZON E MAPPING SPECTROMETER DATABASE
08/31/1995 – 03/14/1997 FY97: $0 Total: $92,737
Prin. Invest.: L SIROVICH
Tech. Officer: GSFC/P BHARTIA
CASE Category: 11 – ASTRONOMY

NAG 5 6276 MT SINAI SCH OF MED OF THE CUNY **7263**
"VESTIBULAR INFLUENCES ON AUTONOMIC CARDIOVASCULAR
09/08/1997 – 06/30/1998 FY97: $320,004 Total: $320,004
Prin. Invest.: H KAUFMANN
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 9 816 MT SINAI SCH OF MED OF THE CUNY **7264**
THYROID FOLLICLE FORMATION IN MICROGRAVITY
08/11/1995 – 09/17/1998 FY97: $152,000 Total: $449,307
Prin. Invest.: A MARTIN
Tech. Officer: JSC/N PELLIS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAS 9 19441 MT SINAI SCH OF MED OF THE CUNY **7265**
SPATIAL ORIENTATION OF VESTIBULO–OCULAR REFLEX AND VELOCITY STORAGE
03/01/1996 – 10/01/1999 FY97: $555,010 Total: $1,006,010
Prin. Invest.: D COHEN, M.D., M DAI, M.D.
Tech. Officer: JSC/A M LEE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 2 951 NEW YORK UNIVERSITY **7266**
EFFECTS OF GRAVITY ON POSTNATL MOTOR DEVELOPMENT
12/22/1994 – 11/30/1997 FY97: $147,186 Total: $353,327
Prin. Invest.: K D WALTON
Tech. Officer: ARC/W E HINDS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 4457 NEW YORK UNIVERSITY **7267**
CELSS CROP SIMULATIONS FOR SYSTEMS ENGINEERING AND PRODUC-TIVITY OPTIMIZATION
05/09/1997 – 03/31/1998 FY97: $119,998 Total: $119,998
Prin. Invest.: T VOLK
Tech. Officer: GSFC/M AVERNER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 630 NEW YORK UNIVERSITY **7268**
PHYSICAL PROPERTIES OF MOLECULAR CLOUDS
06/01/1984 – 01/31/1996 FY97: $0 Total: $760,499
Prin. Invest.: A E GLASSGOLD
Tech. Officer: HQ/F C GILLETT, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 4125 NEW YORK UNIVERSITY **7269**
CELSS CROP SIMULATIONS FOR SYSTEMS ENGINEERING AND PRODUC-TIVITY OPTIMIZATION
08/24/1994 – 08/14/1997 FY97: $0 Total: $239,504
Prin. Invest.: T VOLK
Tech. Officer: HQ/M M AVERNER
CASE Category: 55 – AGRICULTURE

NCC 5 125 NEW YORK UNIVERSITY **7270**
EARTH SYSTEMS SCIENCE RESEARCH
10/26/1995 – 12/31/1997 FY97: $30,000 Total: $59,999
Prin. Invest.: M HOFFERT
Tech. Officer: GSFC/CROSENZWEIG
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 8 55 NIAGARA UNIVERSITY **7271**
LIGHTNING IMAGING SENSOR STUDY
08/17/1994 – 08/17/1998 FY97: $67,307 Total: $188,271
Prin. Invest.: W BOECK
Tech. Officer: MSFC/R BLAKESLEE, MSFC/S J GOODMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 3 1690 POLYTECHNIC INSTITUTE OF NEW YORK **7272**
FILTERED UV RAYLEIGH SCATTERING FOR GAS VELOCITY M EASURE-MENTS
12/27/1994 – 02/28/1997 FY97: $0 Total: $115,000
Prin. Invest.: M V OTUGEN
Tech. Officer: LERC/R G SEASHOLTZ
CASE Category: 13 – PHYSICS

NAG 5 1051 POLYTECHNIC INSTITUTE OF NEW YORK **7273**
CHAMBER EXPERIMENTS FOR SIMULATING TEH CERTIFICIAL PLASMA LAYERS PRODUCED IN THEUPPER ATMOSPHERE
06/15/1988 – 11/14/1997 FY97: $0 Total: $206,605
Prin. Invest.: S P KUO
Tech. Officer: GSFC/R F BENSON
CASE Category: 13 – PHYSICS

NAG 8 1370 POLYTECHNIC INSTITUTE OF NEW YORK **7274**
R/S "DIFFUSION, VISCOSTIY AND CRYSTAL GROWTH OF PROTEINS IN MICROGRAVITY"
05/28/1997 – 11/30/1997 FY97; $59,000 Total: $59,000
Prin. Invest.: A MYERSON
Tech. Officer: MSFC/B FACEMIRE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG10 173 POLYTECHNIC INSTITUTE OF NEW YORK **7275**
CONTROL OF THE DEPOSITION OF ELECTRO–ACTIVE POLYMERS AND THEIR BLENDS ON METAL SURFACES
07/12/1995 – 08/01/1997 FY97: $0 Total: $93,019
Prin. Invest.: K LEVON
Tech. Officer: KSC/K THOMPSON
CASE Category: 12 – CHEMISTRY

NAG10 174 POLYTECHNIC INSTITUTE OF NEW YORK **7276**
ANTICORROSIVE COATING
07/12/1995 – 06/30/1997 FY97: $0 Total: $134,227
Prin. Invest.: E D WEIL
Tech. Officer: KSC/K THOMPSON
CASE Category: 12 – CHEMISTRY

NAG 1 1469 RENSSELAER POLYTECHNIC INSTITUTE **7277**
SIMULATION BASED PERFORMANCE ANALYSIS OF A ROBOTIC TESTBED CONTROL ARCHITECTURE NLPN 92–1004
12/22/1992 – 08/31/1996 FY97: –$171 Total: $224,829
Prin. Invest.: J HADDOCK*Prin. Invest.:* NONE
Tech. Officer: LARC/D L PALUMBO
CASE Category: 12 – CHEMISTRY

NAG 1 1939 RENSSELAER POLYTECHNIC INSTITUTE **7278**
THE DESIGN AND SYNTHESIS OF EPOXY MATRIX COMPOSITES CRUABLE BY ELECTRON BEAM
06/02/1997 – 05/31/1998 FY97: $20,000 Total: $20,000
Prin. Invest.: J V CRIVELLO
Tech. Officer: LARC/J W CONNELL, LARC/N J JOHNSTON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1196 RENSSELAER POLYTECHNIC INSTITUTE **7279**
NEURAL NETWORK APPLICATIONS IN STRUCTURAL MECHANIC S AND DESIGN
08/28/1990 – 12/31/1995 FY97: –$31 Total: $205,286
Prin. Invest.: P HAJELA
Tech. Officer: LERC/L BERKE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1399 RENSSELAER POLYTECHNIC INSTITUTE **7280**
AN EXPERIMENTAL STUDY OF THE VAPOR BUBBLE THERMOSY PHON BASED ON AUGMENTED YOUNG–LAPLACE EQUATION
01/15/1993 – 06/30/1996 FY97: $0 Total: $435,179
Prin. Invest.: P C WAYNER, J L PLAWSKY
Tech. Officer: LERC/J A PLATT
CASE Category: 46 – MECHANICALENGR

NAG 3 1400 RENSSELAER POLYTECHNIC INSTITUTE **7281**
THE ANALYSIS OF PHASE DISTRIBUTION PHENOMENA IN MI CROGRAVITY ENVIRONMENTS
01/15/1993 – 05/31/1996 FY97: –$45 Total: $359,438
Prin. Invest.: R T LAHEY
Tech. Officer: LERC/J B MCQUILLEN
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1696 RENSSELAER POLYTECHNIC INSTITUTE **7282**
MINORITY ENGINEERING PROGRAM
01/18/1995 – 11/15/1997 FY97: $55,000 Total: $205,000
Prin. Invest.: M D SMITH
Tech. Officer: LERC/S MERRITT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 3 1776 RENSSELAER POLYTECHNIC INSTITUTE **7283**
STUDIES OF CYCLIC AND LINEAR CABOSILEANS AS SINGLE –SOURCE SIC PRECURSORS
08/09/1995 – 12/08/1995 FY97: $0 Total: $15,000
Prin. Invest.: L V INTERRANTE
Tech. Officer: LERC/D LARKIN
CASE Category: 12 – CHEMISTRY

NAG 3 1834 RENSSELAER POLYTECHNIC INSTITUTE **7284**
A STUDY OF THE CONSTRAINED VAPOR BUBBL THRMOSYPHON
04/22/1996 – 04/21/2000 FY97: $133,093 Total: $273,093
Prin. Invest.: P C WAYNER
Tech. Officer: LERC/J C DUH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1856 RENSSELAER POLYTECHNIC INSTITUTE **7285**
STUDIES OF CYCLIC AND LINER CARBOSILANES AS SINGLE –SOURCE SIC PRECURSORS
05/03/1996 – 10/13/1997 FY97: $45,000 Total: $75,000
Prin. Invest.: L V INTERRANTE
Tech. Officer: LERC/D LARKIN
CASE Category: 12 – CHEMISTRY

NAG 3 2062 RENSSELAER POLYTECHNIC INSTITUTE **7286**
MICROGRAVITY INSTITUTE FOR TEACHERS AT RENSSELAER POLY-TECHNIC INSTITUTE
07/15/1997 – 09/30/1997 FY97: $30,000 Total: $30,000
Prin. Invest.: M B KOSS
Tech. Officer: LERC/T D RODGERS, LERC/D C MALARIK
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 5 3339 RENSSELAER POLYTECHNIC INSTITUTE **7287**
THE ORIGIN AND EVOLUTION OF DUST IN INTERSTELLAR A ND CIRCUMS-TELLAR ENVIRONMENTS
08/13/1996 – 08/31/1997 FY97: $0 Total: $128,587
Prin. Invest.: D C WHITTET
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3376 RENSSELAER POLYTECHNIC INSTITUTE **7288**
ULTRAVIOLET INTERSTELLAR POLARIATION & NEW INSIGHT S INTO INTERSTELLAR DUST GRAINS
09/10/1996 – 09/14/1997 FY97: $0 Total: $10,261
Prin. Invest.: D C WHITTET
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3725 RENSSELAER POLYTECHNIC INSTITUTE **7289**
METEORITE SPECTROSCOPY AND CHARACTERIZATION OF AST MATERI-ALS
02/12/1997 – 02/14/1998 FY97: $56,000 Total: $56,000
Prin. Invest.: M J GAFFEY
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4557 RENSSELAER POLYTECHNIC INSTITUTE **7290**
A LABORATORY INVESTIGATION OF PHOTOCHEMICAL PROCES
06/23/1997 – 10/31/1997 FY97: $128,000 Total: $128,000
Prin. Invest.: D P FERRIS
Tech. Officer: GSFC/M MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 8 952 RENSSELAER POLYTECHNIC INSTITUTE **7291**
CRYSTAL GROWTH STUDY
02/10/1993 – 11/30/1996 FY97: $0 Total: $269,530
Prin. Invest.: A G OSTROGORSKY
Tech. Officer: MSFC/D C GILLIES
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 8 1265 RENSSELAER POLYTECHNIC INSTITUTE **7292**
DEFECT GENERATION IN CVT GROWN HG1-XCDXTE EPITAXIAL LAYERS UNDER NORMAL AND REDUCED GRAVITY
05/30/1996 – 05/29/1998 FY97: $75,000 Total: $225,000
Prin. Invest.: H WIEDEMEIER
Tech. Officer: MSFC/C R TALLEY, MSFC/R W ALLEN
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 8 1290 RENSSELAER POLYTECHNIC INSTITUTE **7293**
"INVESTIGATIONS OF FREE STREAM FLOW TECHNOLOGIES"
12/18/1996 – 04/30/1998 FY97: $199,976 Total: $199,976
Prin. Invest.: L N MYRABO
Tech. Officer: MSFC/G A ROBERSTON
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 1379 RENSSELAER POLYTECHNIC INSTITUTE **7294**
RESEARCH "PROTEIN CRYSTAL BASED NANOMATERIALS"
06/11/1997 – 11/30/1997 FY97: $112,000 Total: $112,000
Prin. Invest.: J A BELL
Tech. Officer: MSFC/C TALLEY, MSFC/B PENN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 642 RENSSELAER POLYTECHNIC INSTITUTE **7295**
SPEC REFLEC PROP OF METEORITIC MIN ASSEMB–INT ASTEROID MAT
07/01/1984 – 09/30/1996 FY97: $0 Total: $785,160
Prin. Invest.: M J GAFFEY
Tech. Officer: HQ/J R UNDERWOOD, HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1333 RENSSELAER POLYTECHNIC INSTITUTE **7296**
CENTER FOR INTELLIGENT ROBOTIC SYSTEM FOR SPACE EXP.
07/15/1988 – 10/31/1995 FY97: $0 Total: $5,573,212
Prin. Invest.: G N SARIDIS
Tech. Officer: HQ/M D MONTEMERLO
CASE Category: 49 – ENGINEERING, OTHER

NAGW 2781 RENSSELAER POLYTECHNIC INSTITUTE **7297**
A LABORATORY INVESTIGATION OF SOME PHOTOCHEMICAL P ROCESSES OF TITAN
12/13/1991 – 04/30/1997 FY97: $0 Total: $604,000
Prin. Invest.: J P FERRIS
Tech. Officer: HQ/J D RUMMEL
CASE Category: 12 – CHEMISTRY

NAGW 3001 RENSSELAER POLYTECHNIC INSTITUTE **7298**
THEORY OF GRAIN ALIGNMENT IN MOLECULAR CLOUDS
03/11/1992 – 07/31/1996 FY97: $0 Total: $130,984
Prin. Invest.: W G ROBERGE
Tech. Officer: HQ/L J CAROFF
CASE Category: 11 – ASTRONOMY

NAGW 3144 RENSSELAER POLYTECHNIC INSTITUTE **7299**
THE ORIGIN AND EVOLUTION OF DUST IN INTERSTELLAR A ND CIRCUMS-TELLAR ENVIRONMENTS
08/04/1992 – 08/31/1997 FY97: $0 Total: $455,962
Prin. Invest.: D WHITTET
Tech. Officer: HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 4039 RENSSELAER POLYTECHNIC INSTITUTE **7300**
"ISO OBSERVATIONS OF INTERSTELLAR DUST ABSORPTION"
06/17/1994 – 09/30/1997 FY97: $0 Total: $72,997
Prin. Invest.: D C WHITTET
Tech. Officer: HQ/L J CAROFF
CASE Category: 11 – ASTRONOMY

NAS 3 25368 RENSSELAER POLYTECHNIC INSTITUTE **7301**
ISOTHERMAL DENDRITIC GROWTH
12/15/1988 – 12/31/1998 FY97: $400,800 Total: $2,963,263
Prin. Invest.: M E GLICKSMAN
Tech. Officer: LERC/E A WINSA, LERC/G A KRAFT
CASE Category: 47 – METAL & MATERIALS ENGR

NAS 8 39723 RENSSELAER POLYTECHNIC INSTITUTE **7302**
VAPOR TRANSPORT CRYSTAL GROWTH OF HGCDTE IN MICROGRAVITY
06/24/1993 – 04/30/1997 FY97: $0 Total: $985,000
Prin. Invest.: H WIEDEMEIER
Tech. Officer: MSFC/T DE LOACH
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 2 5168 RENSSELAER POLYTECHNIC INSTITUTE **7303**
THE ROLE OF GRAIN SURFACE REACTIONS IN THE CHENIST RY OF STAR FORMING REGIONS
01/09/1996 – 12/31/1998 FY97: $0 Total: $41,000
Prin. Invest.: P ROBERGE
Tech. Officer: ARC/D G TIELENS
CASE Category: 11 – ASTRONOMY

NCC 8 54 RENSSELAER POLYTECHNIC INSTITUTE **7304**
INVESTIGATION OF LOCAL EFFECTS ON MICROSTRUCTURE EVOLUTION
08/01/1994 – 09/30/1996 FY97: –$741 Total: $41,159
Prin. Invest.: M E GLICKMAN
Tech. Officer: MSFC/D O FRAZIER
CASE Category: 13 – PHYSICS

NCC 8 97 RENSSELAER POLYTECHNIC INSTITUTE **7305**
SPACE AND GROUND BASED CRYSTAL GROWTH USING MAGNETICALLY COUPLED BAFFLE
06/13/1996 – 06/13/1998 FY97: $116,321 Total: $229,304
Prin. Invest.: A G OSTROGORSKY
Tech. Officer: MSFC/D A SCHAFER
CASE Category: 11 – ASTRONOMY

NCC 8 112 RENSSELAER POLYTECHNIC INSTITUTE **7306**
VERY ADVANCED HRST EXPLOITING OFF-BOARD BEAMED POWER
06/28/1996 – 06/30/1997 FY97: $70,559 Total: $100,559
Prin. Invest.: L N MYRABO
Tech. Officer: GSFC/J T HOWELL
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 10000 RENSSELAER POLYTECHNIC INSTITUTE **7307**
NGT-10000/RENSSELAER POLY INST NY/INTELLIGENT CONT ROL FOR DUAL ARM MANIPULATORS
12/18/1992 – 10/31/1995 FY97: –$69,911 Total: $480,089
Prin. Invest.: A DESROCHERS
Tech. Officer: HQ/R J HAYDUK
CASE Category: 49 – ENGINEERING, OTHER

NGT 51049 RENSSELAER POLYTECHNIC INSTITUTE **7308**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/14/1993 – 05/28/1997 FY97: $0 Total: $66,000
Prin. Invest.: L N MYRABO, H T NAGAMATSU
Tech. Officer: LERC/F MONTEGANI
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51113 RENSSELAER POLYTECHNIC INSTITUTE **7309**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/14/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: Z RUSAK
Tech. Officer: LARC/E J PRIOR
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51167 RENSSELAER POLYTECHNIC INSTITUTE **7310**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/22/1993 – 12/31/1996 FY97: –$1 Total: $65,999
Prin. Invest.: D W SCHWENDEMAN
Tech. Officer: HQ/P HUNTER
CASE Category: 21 – MATHEMATICS

NGT 51241 RENSSELAER POLYTECHNIC INSTITUTE **7311**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/06/1994 – 09/30/1996 FY97: $0 Total: $44,000
Prin. Invest.: M E GLICKSMAN
Tech. Officer: LERC/F MONTEGANI
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 70334 RENSSELAER POLYTECHNIC INSTITUTE **7312**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
07/01/1993 – 06/30/1996 FY97: $0 Total: $66,027
Prin. Invest.: B SZYMANSKI
Tech. Officer: HQ/D K RUSSELL
CASE Category: 22 – COMPUTER SCIENCE

NGT 90132 RENSSELAER POLYTECHNIC INSTITUTE **7313**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
09/24/1992 – 08/14/1996 FY97: $0 Total: $48,000
Prin. Invest.: N BURNETT
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90133 RENSSELAER POLYTECHNIC INSTITUTE **7314**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
09/26/1992 – 08/14/1996 FY97: $0 Total: $48,000
Prin. Invest.: M SMITH
Tech. Officer: HQ/M MATEU
CASE Category: 45 – ELECTRICAL ENGR

NGT 90188 RENSSELAER POLYTECHNIC INSTITUTE **7315**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/27/1993 – 08/14/1996 FY97: $0 Total: $36,000
Prin. Invest.: N BURNETT
Tech. Officer: HQ/D RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90189 RENSSELAER POLYTECHNIC INSTITUTE **7316**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/27/1993 – 08/14/1996 FY97: $0 Total: $36,000
Prin. Invest.: M SMITH
Tech. Officer: HQ/M MATEU
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 1 52126 RENSSELAER POLYTECHNIC INSTITUTE **7317**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
05/22/1996 – 06/30/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: W G SAWYER, T A BLANCHET
Tech. Officer: LARC/G B NORTHAM, LARC/P O RANSONE
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 1 52160 RENSSELAER POLYTECHNIC INSTITUTE **7318**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
09/22/1997 – 09/21/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: K E JARSEN
Tech. Officer: LARC/M H CARPENTER
CASE Category: 46 – MECHANICAL ENGR

NGT 3 52310 RENSSELAER POLYTECHNIC INSTITUTE **7319**
THE THREE-DIMENSONAL NATURE OF DENDRITIC SOLIDIFAC TION PROCESSES
06/21/1996 – 06/30/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: M E GLICKSMAN
Tech. Officer: LERC/F MONTEGANI
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 5 90025 RENSSELAER POLYTECHNIC INSTITUTE **7320**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
01/24/1997 – 08/14/1997 FY97: $36,000 Total: $36,000
Prin. Invest.: N SMITH
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 49 – ENGINEERING, OTHER

NGT 8 52802 RENSSELAER POLYTECHNIC INSTITUTE **7321**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/28/1995 – 07/31/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: M E GLICKSMAN
Tech. Officer: MSFC/F SIX, MSFC/F R SZOFRAN
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1153 ROCHESTER INSTITUTE OF TECHNOLOGY **7322**
COMPUTATIONAL & EXPERIMENTAL INVESTIGATION OF SPAC E TRANFER VEH ENG TURBOPUMP DESIGN FOR DEEP-THROT
03/13/1990 – 07/27/1997 FY97: $0 Total: $162,224
Prin. Invest.: A OGUT
Tech. Officer: LERC/J A HEMMINGER, LERC/R J CAPALDI
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 3443 ROCHESTER INSTITUTE OF TECHNOLOGY **7323**
ABSOLUTE CALIBRATION, ATMOSPHERIC CORRECTION AND A PPLICATION OF LANDSAT-7 ETM +THERMAL INFRARED...
11/03/1996 – 10/31/1997 FY97: $209,617 Total: $209,617
Prin. Invest.: J SCHOTTMS
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3728 ROCHESTER INSTITUTE OF TECHNOLOGY **7324**
DEVELOPMENT OF BACK ILLUMINATED PREAMP PER PIXEL DEVICE ARRAYS
02/21/1997 – 02/28/1998 FY97: $128,651 Total: $128,651
Prin. Invest.: D NINKOV
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 8 1008 ROCHESTER INSTITUTE OF TECHNOLOGY **7325**
JOVE
11/24/1993 – 05/31/1997 FY97: $0 Total: $113,000
Prin. Invest.: M L WINGSWORTH, Z NINKOV
Tech. Officer: MSFC/F SIX
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4135 ROCHESTER INSTITUTE OF TECHNOLOGY **7326**
CHARACTERIZATIONA DN DEVELOPMENT OF CHARGE INJECTI ON DEVICE ARRAYS
09/16/1994 – 08/31/1997 FY97: $129,569 Total: $368,350
Prin. Invest.: Z NINKEY
Tech. Officer: HQ/T KOSTIUK
CASE Category: 11 – ASTRONOMY

NCC 2 937 ROCHESTER INSTITUTE OF TECHNOLOGY **7327**
AN INVESTIGATION OF THE CONVERGENCE CHARACTERISTIC S OF THE PMARC INTERNAL FLOW CALCULATION APPLIED.
01/23/1996 – 08/31/1997 FY97: $0 Total: $29,979
Prin. Invest.: A GHOSH, PH.D
Tech. Officer: ARC/R D MCMAHON, ARC/A R BOONE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 8 1002 SAINT JOHN FISHER COLLEGE **7328**
JOVE
11/19/1993 – 05/31/1997 FY97: –$15,028 Total: $71,972
Prin. Invest.: W LEWIS, R SMITH
Tech. Officer: MSFC/F SIX
CASE Category: 13 – PHYSICS

NAG 5 2242 STATE UNIV OF NEW YORK – ALBANY **7329**
SURFACE EXCHANGE OBSERVATIONS IN THE CANADIAN BORE AL FOREST REGION
04/08/1993 – 04/14/1998 FY97: $110,000 Total: $822,500
Prin. Invest.: D B FITZIARRALD
Tech. Officer: GSFC/F G HALL, GSFC/P SELLARS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2714 STATE UNIV OF NEW YORK – ALBANY **7330**
REGIONAL – SCALE CHEMICAL IMPACTS OF AIRCRAFT EXHAUST
08/31/1994 – 08/31/1997 FY97: $107,500 Total: $407,530
Prin. Invest.: C W WALEK
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4706 STATE UNIV OF NEW YORK – ALBANY **7331**
ABUNDANCES AND DISTRIBUTIONS OF VOLATILE ELEMENTS LUNAR VOLCANIC GLASS SPHERES
06/11/1997 – 06/30/1998 FY97: $35,172 Total: $35,172
Prin. Invest.: D W DELANO
Tech. Officer: GSFC/D F NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 6227 STATE UNIV OF NEW YORK – ALBANY **7332**
DETECTING INTERACTIONS BETWEEN VEGETATION AND THE THE NORTHEASTERN UNITED STATES
09/12/1997 – 09/30/1998 FY97: $115,167 Total: $115,167
Prin. Invest.: D R FITZJARRALD
Tech. Officer: GSFC/D WICKLAND
CASE Category: 11 – ASTRONOMY

NAG 8 1309 STATE UNIV OF NEW YORK – ALBANY **7333**
RESEARCH"STUDY OF BENT CAPILLARIES WITH APPLICATION TO THE DEVELOP. FOR OPTIC X–RAY
09/23/1996 – 08/31/1998 FY97: $37,097 Total: $61,847
Prin. Invest.: W M GIBSON
Tech. Officer: MSFC/M K JOY, MSFC/C E WINKER
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3357 STATE UNIV OF NEW YORK – ALBANY **7334**
PHYSICS AND CHEMISTRY OF NATURAL GLASSES
02/09/1993 – 06/30/1997 FY97: $0 Total: $168,393
Prin. Invest.: J DELANO
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAS 1 18942 STATE UNIV OF NEW YORK – ALBANY **7335**
SAGE III SCIENCE SUPPORT – P.I. – DR. V. MOHNEN
01/31/1990 – 01/31/2005 FY97: $65,000 Total: $313,400
Prin. Invest.: V MOHNEN
Tech. Officer: LARC/G L MADDREA, LARC/L R MCMASTER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 8 39926 STATE UNIV OF NEW YORK – ALBANY **7336**
ADVANCE HIGH BRILLIANCE X–RAY SOURCE
04/01/1993 – 12/31/1996 FY97: $0 Total: $442,588
Prin. Invest.: W E GIBSON
Tech. Officer: MSFC/T Y MILLER
CASE Category: 13 – PHYSICS

NCC 2 5125 STATE UNIV OF NEW YORK – ALBANY **7337**
USE OF AN EXISTING AIRBORNE RADON DATA BASE IN THE VERIFICATION OF THE NASA/AEAP CORE MODEL
04/14/1995 – 04/30/1998 FY97: $23,811 Total: $83,795
Prin. Invest.: M KRITZ
Tech. Officer: ARC/L PFISTER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 5212 STATE UNIV OF NEW YORK – ALBANY **7338**
REVIEW QUALITY ASSURANCE AND APPLICATION OF GLOBAL ATMOSPHERIC RADON DATA
04/03/1997 – 07/31/1998 FY97: $39,998 Total: $39,998
Prin. Invest.: M KRITZ
Tech. Officer: ARC/L PFISTER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 8 125 STATE UNIV OF NEW YORK – ALBANY **7339**
RESEARCH BRINGING GREATLY ENHANCED LAB–BASED PROTEIN CRYSTALLOGRAPHY TO THE US BIOTECHNOLOGY
01/16/1997 – 01/15/1998 FY97: $822,063 Total: $822,063
Prin. Invest.: W M GIBSON
Tech. Officer: MSFC/K HIGGINBOTHAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NGT 30340 STATE UNIV OF NEW YORK – ALBANY **7340**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/11/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: D R FITZJARRALD
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 51239 STATE UNIV OF NEW YORK – ALBANY **7341**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/19/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: A E KALOYEROS
Tech. Officer: LERC/F MONTEGANI
CASE Category: 13 – PHYSICS

NGT 5 30081 STATE UNIV OF NEW YORK – ALBANY **7342**
COMPARATIVE STUDY OF A VARIETY OF VEGETATION TYPES ATMOSPHERIC SURFACE AND PLANETARY BOUNDARY LAYER
09/11/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D R FITZJARRALD
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 3866 STATE UNIV OF NEW YORK – BINGHAMTON **7343**
MODELS FOR OPTICAL RADIATION REGIME IN VEGETATION STUDIES
01/24/1997 – 09/30/1997 FY97: $80,513 Total: $80,513
Prin. Invest.: M GOEL
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 2699 STATE UNIV OF NEW YORK – BINGHAMTON **7344**
THERMAL INFRARED REMOTE SENSING AND BIOSPHERIC PRO CESSES
08/20/1991 – 08/31/1997 FY97: $0 Total: $190,093
Prin. Invest.: N S GOEL, J M NORMAN
Tech. Officer: HQ/G ASRAR, HQ/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 1 1122 STATE UNIV OF NEW YORK – BUFFALO **7345**
LARGE EDDY SIMULATORS AND DIRECT NUMERICAL SIMULATORS OF HIGH SPEED TURBULANT REACTING FLOWS
04/19/1990 – 07/31/1998 FY97: $77,520 Total: $460,020
Prin. Invest.: P GIBI
Tech. Officer: LARC/J P DRUMMOND
CASE Category: 46 – MECHANICAL ENGR

NAG 1 1599 STATE UNIV OF NEW YORK – BUFFALO **7346**
OPTIMAL SCHEDULE FOR REDUCTION OF COMPLEX SYSTEMS MY 1/2
03/02/1994 – 03/01/1996 FY97: –$5,908 Total: $85,423
Prin. Invest.: C L BLEEBAUM
Tech. Officer: LARC/J L ROGERS
CASE Category: 49 – ENGINEERING, OTHER

NAG 1 1800 STATE UNIV OF NEW YORK – BUFFALO **7347**
DEVELOPMENT OF OPTIMAL CONVERGENCE STRATEGIES FOR DISTRIBUTED COMPLEX DESIGN
01/26/1996 – 02/28/1998 FY97: $43,701 Total: $93,111
Prin. Invest.: C L BLOEBAUM
Tech. Officer: LARC/J L ROGERS, LARC/T A ZANG
CASE Category: 49 – ENGINEERING, OTHER

NAG 2 947 STATE UNIV OF NEW YORK – BUFFALO **7348**
NASA–ESA JOINT CO2 STUDY
12/13/1994 – 03/31/1996 FY97: –$11 Total: $217,036
Prin. Invest.: J A KRASNEY
Tech. Officer: ARC/C M WINGET, ARC/G C JAHNS
CASE Category: 56 – MEDICL

NAG 3 1620 STATE UNIV OF NEW YORK – BUFFALO **7349**
NONLINEAR BUBBLE INTERACTIONS IN ACOUSTIC PRESSURE FIELDS
06/16/1994 – 09/22/1997 FY97: $0 Total: $126,788
Prin. Invest.: J TSAMOPOULOS
Tech. Officer: LERC/B S SINGH
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1812 STATE UNIV OF NEW YORK – BUFFALO **7350**
AFFORDABLE HIGH PERFORMANCE COMPUTING: CHARACTERI ZATION OF ATM–BASED WORKSTATION CLUSTERS
03/13/1996 – 03/12/1998 FY97: –$31,143 Total: $10,559
Prin. Invest.: P DOWD
Tech. Officer: LERC/D VAN DREI, LERC/I LOPEZ
CASE Category: 22 – COMPUTER SCIENCE

NAG 3 2035 STATE UNIV OF NEW YORK – BUFFALO **7351**
NONINEAR MICROMECHANICAL ANALYSIS OF WOVEN COMPOSI TES BY BEM
04/16/1997 – 11/30/1997 FY97: $75,054 Total: $75,054
Prin. Invest.: P K BANERJEE
Tech. Officer: LERC/D A HOPKINS
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 2273 STATE UNIV OF NEW YORK – BUFFALO **7352**
VOLCANO MONITORING FOR ERUPTION PREDICTION AND FOR ECASTING USING THE GLOBAL POSITIONING SYSTEM
05/26/1993 – 07/31/1998 FY97: $0 Total: $85,000
Prin. Invest.: BURSIK
Tech. Officer: GSFC/G BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3142 STATE UNIV OF NEW YORK – BUFFALO **7353**
LANDSCAPE EVOLUTION, A COMPARISON OF FORM AND PROCESS
11/09/1995 – 11/14/1997 FY97: $73,666 Total: $147,342
Prin. Invest.: M BARSIK
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4569 STATE UNIV OF NEW YORK – BUFFALO **7354**
CONSTRUCTION AND CAPABILITIES OF A ROVER–DEPLOYED PENETRATING RADAR
07/23/1997 – 06/30/1998 FY97: $79,954 Total: $79,954
Prin. Invest.: D GRANT, III
Tech. Officer: GSFC/B CAMPBELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3630 STATE UNIV OF NEW YORK – BUFFALO **7355**
GRAVITY INDUCED ALTERATION IN DIFFERENTIATION OF A LL TYPE IN CHARA
05/28/1993 – 05/31/1998 FY97: $0 Total: $119,000
Prin. Invest.: M A BISSON
Tech. Officer: HQ/T W HALSTEAD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 3937 STATE UNIV OF NEW YORK – BUFFALO **7356**
CARDIOPULMONARY HEMODYNAMICS IN MICROGRAVITY
05/27/1994 – 05/31/1998 FY97: $0 Total: $661,404
Prin. Invest.: L E FARHI
Tech. Officer: HQ/F M SULZMAN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 50992 STATE UNIV OF NEW YORK – BUFFALO **7357**
NGT–50992/STATE UNIV NEW YORK/GRADUATE STUDENT RESEARCHERS PROGRAM
08/04/1992 – 12/31/1996 FY97: –$96 Total: $87,904
Prin. Invest.: V SHALIN, NONE
Tech. Officer: LARC/E J PRIOR
CASE Category: 49 – ENGINEERING, OTHER

NGT 5 70006 STATE UNIV OF NEW YORK – BUFFALO **7358**
THERMAL & SHORT WAVELENGTH INFRARED MONITORING OF AT ACTIVE VOLCANOES STUDENT:
09/05/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: N SHERIDAN
Tech. Officer: GSFC/STOUTSENBERGER
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 1 1264 STATE UNIV OF NEW YORK – STONY BROOK **7359**
THE SURFACE RADIATION BUDGET AND CLOUD CLIMATE INTERACTIONS AS A PART OF CERES
04/29/1991 – 05/30/1998 FY97: $121,234 Total: $676,876
Prin. Invest.: R D CESS
Tech. Officer: LARC/B A WIELICKI, LARC/J W YOUNGBLOOD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1838 STATE UNIV OF NEW YORK – STONY BROOK **7360**
TRAVEL SUPPORT FOR FIRST SPARC GENERAL ASSEMBLY IN MELBOURNE, AU, 12/96
05/31/1996 – 05/30/1998 FY97: $0 Total: $32,600
Prin. Invest.: M A GELLER
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 1026 STATE UNIV OF NEW YORK – STONY BROOK **7361**
CELLULAR MECHANISMS OF SPACEFLIGHT SPECIFIC STRESS IN PLANTS
03/05/1996 – 10/31/1997 FY97: $100,000 Total: $249,202
Prin. Invest.: A D KRIKORIAN
Tech. Officer: ARC/C M WINGET, ARC/G C JAHNS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 1594 STATE UNIV OF NEW YORK – STONY BROOK **7362**
GLOBAL ASPECTS OF LOW MASS STAR FORMATION IN THE O RION COMPLEX & LOW MASS STARS IN ASSOCIATION I. .
05/09/1991 – 05/31/1997 FY97: $0 Total: $189,878
Prin. Invest.: F M WALTER
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 1862 STATE UNIV OF NEW YORK – STONY BROOK **7363**
THREE DIMENSIONAL STRUCTURES OF THE ATMOSPHERES OF COOL STARS
01/16/1992 – 05/31/1997 FY97: $0 Total: $322,645
Prin. Invest.: F M WALTER
Tech. Officer: GSFC/A SMITH
CASE Category: 11 – ASTRONOMY

NAG 5 2366 STATE UNIV OF NEW YORK – STONY BROOK **7364**
THE EMISSION MEASURE DISTRIBUTION IN THE CORONAE O F AR LACERTAE
09/13/1993 – 09/14/1996 FY97: $0 Total: $79,739
Prin. Invest.: F M WALTER
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 2403 STATE UNIV OF NEW YORK – STONY BROOK **7365**
REDETERMINATION OF FLUXES FOR IRAS GALAXIES
10/25/1993 – 10/31/1996 FY97: $0 Total: $114,000
Prin. Invest.: A YAHIL
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2404 STATE UNIV OF NEW YORK – STONY BROOK **7366**
HIGH MASS STAR FORMATION AND ULTRACOMPACT HII REGI ONS IN GALACTIC PLANE GMC'S
10/28/1993 – 04/30/1996 FY97: –$148 Total: $95,252
Prin. Invest.: P M SOLOMON
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2739 STATE UNIV OF NEW YORK – STONY BROOK **7367**
TWO–D REPRESENTATION OF THREE–D MODELING OF ATMOSPHERIC EFFECTS OF AIRCRAFT
09/27/1994 – 09/30/1997 FY97: $85,000 Total: $278,839
Prin. Invest.: M A GELLER
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2863 STATE UNIV OF NEW YORK – STONY BROOK **7368**
THE COMPOSITION, STRUCTURE AND EVOLUTION OF NEUTRO N STARS
01/06/1995 – 01/14/1998 FY97: $44,999 Total: $175,998
Prin. Invest.: J M LATTIMER
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2936 STATE UNIV OF NEW YORK – STONY BROOK **7369**
THE STRUCTURE OF THE CORONAE OF PRE–MAIN SEQUENCE STARS
05/08/1995 – 05/14/1997 FY97: $0 Total: $25,000
Prin. Invest.: F WALTER
Tech. Officer: GSFC/N WHITE
CASE Category: 12 – CHEMISTRY

NAG 5 2964 STATE UNIV OF NEW YORK – STONY BROOK **7370**
THE EMISSION MEASURE DISTRIBUTION IN PRE–MAIN SEQUENCE B STARS
06/12/1995 – 12/14/1996 FY97: $0 Total: $15,000
Prin. Invest.: F WALTER
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2983 STATE UNIV OF NEW YORK – STONY BROOK **7371**
CHROMOSPHERIC DOPPLER IMAGING AND THE SEARCH FOR THE MAGNETIC CYCLE IN AR LACERT
06/27/1995 – 06/30/1997 FY97: $0 Total: $83,117
Prin. Invest.: F M WALTER
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3135 STATE UNIV OF NEW YORK – STONY BROOK **7372**
CONSISTENCY STUDY OF THE ENHANCED SHORTWAVE CLOUD ABSORPTION USING GEBA DATA
11/03/1995 – 11/14/1997 FY97: $39,898 Total: $78,349
Prin. Invest.: M ZHANG
Tech. Officer: GSFC/M D CHOU
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3177 STATE UNIV OF NEW YORK – STONY BROOK **7373**
DYNAMICS AND TRANSPORT INVESTIGATIONS USING UARS D ATA
03/06/1996 – 03/14/1998 FY97: $92,209 Total: $218,032
Prin. Invest.: M A GELLER
Tech. Officer: GSFC/A R DOUGLASS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3261 STATE UNIV OF NEW YORK – STONY BROOK **7374**
THE GASEOUS CONTENT OF THE UNIVERSE AT Z
06/10/1996 – 04/30/1997 FY97: $40,000 Total: $ 77,000

Prin. Invest.: K M LANZETTA
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3297 STATE UNIV OF NEW YORK – STONY BROOK **7375**
GIANT MOLECULAR CLOUDS AND HIGH MASS STAR FORMATIO N IN THE MILKY WAY
07/15/1996 – 04/30/1997 FY97: $117,000 Total: $229,000
Prin. Invest.: P M SOLOMON
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3718 STATE UNIV OF NEW YORK – STONY BROOK **7376**
LABORATORY SPECTROSCOPIC MEASUREMENTS RELEVANT TO RESEARCH
01/24/1997 – 12/31/1997 FY97: $89,581 Total: $89,581
Prin. Invest.: D VARANABI
Tech. Officer: GSFC/D KURYLO
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3950 STATE UNIV OF NEW YORK – STONY BROOK **7377**
OPTIMIZATION OF A BIOCHEMICAL COUNTERMEASURE
02/12/1997 – 02/14/1998 FY97: $248,455 Total: $248,455
Prin. Invest.: C T RUBIN
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 4043 STATE UNIV OF NEW YORK – STONY BROOK **7378**
CIO MEASUREMENTS AND ANALYSIS IN THE NETWORK FOR T STRATOSPHERIC CHANGE
05/06/1997 – 12/14/1997 FY97: $294,498 Total: $294,498
Prin. Invest.: P SOLOMON
Tech. Officer: GSFC/M J KURYLO
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4071 STATE UNIV OF NEW YORK – STONY BROOK **7379**
STRATOPHERIC AND MESOSPHERIC TRACE GAS STUDIES USI MM-WAVE RECEIVERS
03/21/1997 – 03/31/1998 FY97: $199,367 Total: $199,367
Prin. Invest.: R L DE ZAFRA
Tech. Officer: GSFC/M J KURYLO
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4498 STATE UNIV OF NEW YORK – STONY BROOK **7380**
STUDY OF ENVIRONMENTS FOR PLANET FORMATION
05/06/1997 – 07/31/1998 FY97: $20,000 Total: $20,000
Prin. Invest.: D J SIMON
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4640 STATE UNIV OF NEW YORK – STONY BROOK **7381**
THE STABILITY OF ORBITAL CONFIGURATIONS AND THE UL OF PLANETARY AND SATELLITESYSTEMS
06/09/1997 – 03/31/1998 FY97: $45,000 Total: $45,000
Prin. Invest.: D J LISSAUER
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4792 STATE UNIV OF NEW YORK – STONY BROOK **7382**
A DEEP OBSERVATION OF A WELL-OBSERVED FIELD IN THE AND X-RAY EMISSION FROM PMS STARS: SPLITTING THE
06/23/1997 – 06/30/1998 FY97: $16,500 Total: $16,500
Prin. Invest.: F M WALTER
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 4862 STATE UNIV OF NEW YORK – STONY BROOK **7383**
THE X-RAY SPECTRUM OF AN ISOLATED OLD NEUTRON STAR PHOTOMETRY OF AN ISOLATED NEUTRON STAR, AND CYCLO
06/17/1997 – 05/31/1998 FY97: $19,300 Total: $19,300
Prin. Invest.: F M WALTER, NONE
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 4894 STATE UNIV OF NEW YORK – STONY BROOK **7384**
SORPTION OF ORGANIC MOLECULES ON PYRITE
07/03/1997 – 11/30/1997 FY97: $45,001 Total: $45,001
Prin. Invest.: D A SCHOONEN
Tech. Officer: GSFC/M MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 6007 STATE UNIV OF NEW YORK – STONY BROOK **7385**
STUDIES OF EXCITED SPECIES IN PLANETARY UPPER ATMO
07/23/1997 – 12/31/1997 FY97: $83,000 Total: $83,000
Prin. Invest.: D FOX
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 1227 STATE UNIV OF NEW YORK – STONY BROOK **7386**
ORBITAL PROCESSING OF HIGH QUALITY CDTE COMPOUND SEMICONDUCTORS
03/13/1996 – 12/31/1997 FY97: $0 Total: $874,200
Prin. Invest.: D LARSON, NONE
Tech. Officer: MSFC/F REEVEWS
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 1107 STATE UNIV OF NEW YORK – STONY BROOK **7387**
DYNAMICAL PROBLEMS IN THE SOLAR SYSTEM
06/01/1987 – 09/30/1997 FY97: $0 Total: $525,851
Prin. Invest.: J LISSAUER
Tech. Officer: HQ/J R UNDERWOOD, HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1238 STATE UNIV OF NEW YORK – STONY BROOK **7388**
LABORATORY SPECTROSCOPIC MEASUREMENTS
12/07/1987 – 06/30/1997 FY97: $0 Total: $717,681
Prin. Invest.: P VARANASI
Tech. Officer: HQ/M J KURYLO, HQ/R T WATSON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 1529 STATE UNIV OF NEW YORK – STONY BROOK **7389**
CELLS EMBROYOS AND DEVELOPMENT IN SPACE
11/28/1988 – 10/31/1995 FY97: $0 Total: $615,000
Prin. Invest.: A D KRIKORIAN
Tech. Officer: HQ/T HALSTEAD
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 1560 STATE UNIV OF NEW YORK – STONY BROOK **7390**
TESTING & OPERATION OF A MILLIMETER WAVE CIO RECEIVES
04/26/1989 – 06/30/1997 FY97: $0 Total: $1,828,291
Prin. Invest.: P M SOLOMON
Tech. Officer: HQ/M J KURYLO, HQ/R T WATSON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 1894 STATE UNIV OF NEW YORK – STONY BROOK **7391**
QUANTITATIVE SPECTROSCOPIC MEASUREMENTS ON THE PRI NCIPAL CONSTITUENTS IN PLANETARY ATMOSPHERES
01/24/1990 – 09/30/1995 FY97: $0 Total: $402,739
Prin. Invest.: P VARANASI
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAGW 2182 STATE UNIV OF NEW YORK – STONY BROOK **7392**
NAGW-2182/STATE UNIV NY/THE MEASUREMENT OF STRATOS PHERIC TRACE GASES BY MM-WAVE EMISSION SPECTROSCO
07/09/1990 – 12/31/1997 FY97: $0 Total: $1,334,636
Prin. Invest.: R DE ZAFRA
Tech. Officer: HQ/M J KURYLO
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 2958 STATE UNIV OF NEW YORK – STONY BROOK **7393**
STUDIES OF EXCITED SPECIES IN PLANETARY UPPER ATMO SPHERE
03/03/1992 – 06/30/1997 FY97: $0 Total: $400,488
Prin. Invest.: J L FOX
Tech. Officer: HQ/W L QUAIDE
CASE Category: 11 – ASTRONOMY

NAGW 3165 STATE UNIV OF NEW YORK – STONY BROOK **7394**
TIMESCALES FOR THE DISSIPATION OF PROTOPLANETARY D ISKS
08/10/1992 – 05/31/1996 FY97: $0 Total: $120,000
Prin. Invest.: F WALTER
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3517 STATE UNIV OF NEW YORK – STONY BROOK **7395**
CONTINUED PARTICIPATION ON THE RECONSTITUTED EARTH RADIATION BUDGET EXPERIMENT SCIENCE TEAM
04/30/1993 – 03/31/1996 FY97: $0 Total: $276,053
Prin. Invest.: R D CESS
Tech. Officer: HQ/J C DODGE, HQ/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3731 STATE UNIV OF NEW YORK – STONY BROOK **7396**
STUDIES OF THE NIGHTSIDE IONOSPHERES–THERMOSPHERES OF VENUS AND MARS
09/03/1993 – 06/30/1996 FY97: -$3 Total: $77,397
Prin. Invest.: J L FOX
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 4040 STATE UNIV OF NEW YORK – STONY BROOK **7397**
THE STABILITY OF ORBITAL CONFIGURATIONS: THE ULTIM ATE CONFIGURATION OF PLANETARY & SATELLITE SYSTEM
06/09/1994 – 09/30/1997 FY97: $0 Total: $135,320
Prin. Invest.: J LISSAUER
Tech. Officer: HQ/P ROGERS
CASE Category: 11 – ASTRONOMY

NAGW 4113 STATE UNIV OF NEW YORK – STONY BROOK **7398**
STUDY OF ENVIRONMENTS FOR PLANET FORMATION
09/06/1994 – 07/31/1997 FY97: $0 Total: $39,997
Prin. Invest.: M SIMON
Tech. Officer: HQ/P ROGERS
CASE Category: 11 – ASTRONOMY

NAGW 4433 STATE UNIV OF NEW YORK – STONY BROOK **7399**
THE GASEOUS CONTENT OF THE UNIVERSE AT Z
05/12/1995 - 04/30/1997 FY97: $0 Total: $51,000

Prin. Invest.: K LANZETTA
Tech. Officer: HQ/G 4 RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 4509 STATE UNIV OF NEW YORK – STONY BROOK **7400**
GIANT MOLECULAR CLOUDS AND HIGH MASS
05/17/1995 – 09/30/1996 FY97: $0 Total: $124,000
Prin. Invest.: P S SOLOMON
Tech. Officer: HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 4659 STATE UNIV OF NEW YORK – STONY BROOK **7401**
ORBITS OF SATURN'S INNER MOONS AND OTHER OBSERVATI ONS CONNECTED WITH THE 1995-1996 SATURN RING CROS
07/28/1995 – 09/30/1997 FY97: $0 Total: $94,000
Prin. Invest.: J LISSAUER
Tech. Officer: HQ/E BARKER
CASE Category: 11 – ASTRONOMY

NAGW 4834 STATE UNIV OF NEW YORK – STONY BROOK **7402**
RESEARCH FOUNDATION_OF STATE UNIVERSITY OF NY;WORK SHOP ON PLANETQRY FORMATION IN BINARY ENVIRONMENT
10/10/1995 – 08/31/1996 FY97: -$1,054 Total: $18,946
Prin. Invest.: M SIMON
Tech. Officer: HQ/P G ROGERS
CASE Category: 32 – GEOLOGICALSCIENCE

NAGW 4915 STATE UNIV OF NEW YORK – STONY BROOK **7403**
SORPTION OF SIMPLE ORGANIC MOLECULES ONTO PYRITE: POSSIBLY AN IMPORTANT STEP IN THE ORIGIN OF LIFE
02/08/1996 – 11/30/1996 FY97: $0 Total: $45,012
Prin. Invest.: D A SCHOONEN
Tech. Officer: HQ/M MEYER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5249 STATE UNIV OF NEW YORK – STONY BROOK **7404**
DEVELOPMENT AND VALIDATION OF A TROPICAL ISOPRENE EMISSION MODEL
10/25/1996 – 09/30/1997 FY97: $140,518 Total: $140,518
Prin. Invest.: M T LERDAU
Tech. Officer: HQ/G ASRAR, HQ/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG10 146 STATE UNIV OF NEW YORK – STONY BROOK **7405**
PLANT EMBRYOS AND FIDELITY OF CELL DIVISION
09/30/1994 – 09/30/1997 FY97: $0 Total: $174,696
Prin. Invest.: A D DRIKORIAN
Tech. Officer: KSC/W M KNOTT
CASE Category: 55 – AGRICULTURE

NAS 5 31247 STATE UNIV OF NEW YORK – STONY BROOK **7406**
OBSER. ANALYSIS/THEORETICAL MODELING INVEST. UARS
08/09/1990 – 11/30/1996 FY97: $0 Total: $1,816,370
Prin. Invest.: M A GELLER
Tech. Officer: GSFC/C A REBER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 31720 STATE UNIV OF NEW YORK – STONY BROOK **7407**
EOS INVESTIGATION GLOBAL HYDROLOGIC PROCESSES & CLIMATE
08/21/1991 – 12/31/1997 FY97: $0 Total: $224,500
Prin. Invest.: M GELLER
Tech. Officer: GSFC/W LAU
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 2 5231 STATE UNIV OF NEW YORK – STONY BROOK **7408**
TIME–CRITICAL VOLUME RENDERING
07/29/1997 – 07/31/1998 FY97: $20,000 Total: $20,000
Prin. Invest.: A KAUFMAN
Tech. Officer: ARC/M YAMASAKI
CASE Category: 22 – COMPUTER SCIENCE

NCC 5 126 STATE UNIV OF NEW YORK – STONY BROOK **7409**
INTERDISCIPLINARY GLOBAL CHANGE RESEARCH
10/05/1995 – 10/14/1997 FY97: $194,496 Total: $324,251
Prin. Invest.: D GELLER
Tech. Officer: GSFC/M B CARLSON
CASE Category: 11 – ASTRONOMY

NCC 8 48 STATE UNIV OF NEW YORK – STONY BROOK **7410**
CRYSTAK RESEARCH
06/17/1994 – 07/19/1997 FY97: $0 Total: $100,000
Prin. Invest.: M DUDLEY, D J LARSON
Tech. Officer: MSFC/D C GILLIES, MSFC/F R SZOFRAN
CASE Category: 13 – PHYSICS

NCC 8 53 STATE UNIV OF NEW YORK – STONY BROOK **7411**
CRYSTAL STUDIES
07/15/1994 – 09/15/1997 FY97: $0 Total: $26,453
Prin. Invest.: M DUDLEY
Tech. Officer: MSFC/D C GILLIES, MSFC/C SU
CASE Category: 13 – PHYSICS

NCC 8 93 STATE UNIV OF NEW YORK – STONY BROOK **7412**
COMBINED SYNCHROTRON WHITE X–RAY TOPOGRAPHY & HIGH RESOLUTION TRIPLE AXIS X–RAY DIFFRACTION CHARACTE
04/22/1996 – 04/24/1998 FY97: $56,031 Total: $158,330
Prin. Invest.: M DUDLEY, R J MATYI
Tech. Officer: MSFC/C TALLEY, MSFC/F R SZOFRAN
CASE Category: 13 – PHYSICS

NCC 8 100 STATE UNIV OF NEW YORK – STONY BROOK **7413**
RESEARCH ENTITLED "ORBITAL PROCESSING OF EUTECTICS
06/13/1996 – 11/30/1997 FY97: $132,750 Total: $264,000
Prin. Invest.: D LARSON
Tech. Officer: MSFC/T TURNER
CASE Category: 49 – ENGINEERING, OTHER

NGT 5 30124 STATE UNIV OF NEW YORK – STONY BROOK **7414**
ENVIRONMENTAL CONTROLS OVER 2–METHYL–3–BUTEN–2–01
09/30/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: M LERDAU
Tech. Officer: GSFC/S ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 1121 STATE UNIV OF NEW YORK COL – ONEONTA **7415**
DEVELOP CMC DATABASE FOR NEXT GENERATION LAUNCE VEHICLE
01/23/1995 – 01/31/1996 FY97: $1,076 Total: $28,408
Prin. Invest.: K MAHANTA
Tech. Officer: MSFC/R G CLINTON, MSFC/D S TUCKER
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 8 1299 STATE UNIV OF NEW YORK COL – ONEONTA **7416**
DEVELOPMENT OF A MATERIAL PROPERTY DATABASE
06/17/1996 – 07/24/1997 FY97: $0 Total: $42,973
Prin. Invest.: K MAHANTA
Tech. Officer: MSFC/R G CLINTN, JR., MSFC/M R EFFINGER
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 5 6102 STATE UNIV OF NEW YORK COL – PLATTSBURGH **7417**
CARBON CHARACTERIZATION, ELEMENT ABUNDANCES AND X– E MEASUREMENTS ON AH84001
07/25/1997 – 07/31/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: G J FLYNN
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAGW 3587 STATE UNIV OF NEW YORK COL – PLATTSBURGH **7418**
TRACE ELEMENT ABUNDANCE MEASUREMENTS ON COSMIC DUS T PARTICLES
05/12/1993 – 06/30/1997 FY97: $34,248 Total: $138,794
Prin. Invest.: G FLYNN
Tech. Officer: HQ/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 2700 STATE UNIV OF NEW YORK COLLEGE – PURCHASE **7419**
IMPROVEMENT OF JET STREAM WIND ANALYSIS USING COMMERCIAL AIRCRAFT DATA
08/24/1994 – 08/31/1997 FY97: $127,387 Total: $393,492
Prin. Invest.: J TENENBAUM
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3169 STATE UNIV OF NEW YORK COLLEGE – PURCHASE **7420**
DETERMINATION OF GOS ANALYSIS ERRORS NEAR STRONG J ET STREAMS USING HIGHRESOLUTION MODELS & AIRCRAF
04/15/1996 – 04/14/1998 FY97: $70,000 Total: $135,000
Prin. Invest.: J TENENBAUM
Tech. Officer: GSFC/H M HELFAND
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4157 STATE UNIV OF NEW YORK COLLEGE – PURCHASE **7421**
EVOLUTION OF VALLEY NETWORKS
04/16/1997 – 02/28/1998 FY97: $18,585 Total: $18,585
Prin. Invest.: D GRANT,III
Tech. Officer: GSFC/P ROGER
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4691 STATE UNIV OF NEW YORK COLLEGE – PURCHASE **7422**
CARBON AND NITROGEN ABUNDANCES IN INTERPLANETARY TO PRE-BIOTIC ORGANIC MATTER ON EARTH
06/26/1997 – 05/31/1998 FY97: $25,000 Total: $25,000
Prin. Invest.: D J FLYNN
Tech. Officer: GSFC/M A MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 4843 STATE UNIV OF NEW YORK COLLEGE – PURCHASE **7423**
TRACE ELEMENT ABUNDANCE DETERMINATION OF COSMIC DU
06/27/1997 – 06/30/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: D J FLYNN
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4544 STATE UNIV OF NEW YORK COLLEGE, BUFFALO **7424**
PLANETARY GEOLOGY AND GEOPHYSICS UNDERGRADUATE RES
05/13/1997 – 03/31/1998 FY97: $78,922 Total: $78,922
Prin. Invest.: D S KING
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2259 STATE UNIV OF NEW YORK COLLEGE, BUFFALO **7425**
COMPARATIVE VOLCANOLOGIC STUDIES AND PPG UNDERGRAD UATE RESEARCH PROGRAM
12/14/1990 – 12/31/1996 FY97: -$70,000 Total: $504,790
Prin. Invest.: J S KING
Tech. Officer: HQ/T A MAXWELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 70410 STATE UNIV OF NEW YORK COLLEGE, BUFFALO **7426**
GRADUATE STUDENT RESEARCHERS (UMDF) PROGRAM
07/13/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: M F SHERIDAN
Tech. Officer: HQ/D K RUSSELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 1 1797 SYRACUSE UNIVERSITY **7427**
CENTER FOR TRAINING AND RESEARCH IN HYPERSONICS
01/24/1996 – 01/31/1999 FY97: $100,000 Total: $300,000
Prin. Invest.: J E LA GRAFF, E F SPINE
Tech. Officer: LARC/S MASSENBERG
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 1084 SYRACUSE UNIVERSITY **7428**
MODELING & OPTIMIZATION OF DYNAMIC HOLOGRAPHIC PRO CESS BAC-TERIORHODOSPIN FILMS
09/25/1996 – 11/14/1997 FY97: $10,000 Total: $110,000
Prin. Invest.: Q W SONG, R BIRGE
Tech. Officer: ARC/C K GARY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1468 SYRACUSE UNIVERSITY **7429**
THREE-DIMENSIONAL & VISCOUS INVERSE DESIGN METHOD FOR BLADES IN MULTISTAGE TURBOMACHINES
04/16/1993 – 12/31/1995 FY97: $0 Total: $98,936
Prin. Invest.: T Q DANG
Tech. Officer: LERC/J P VERES
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1585 SYRACUSE UNIVERSITY **7430**
INVERSE METHOD FOR THE NASA LERC TURBOMACHINERY DE SIGN/ ANALYSIS SYSTEM
03/29/1994 – 01/21/1998 FY97: $58,653 Total: $185,754
Prin. Invest.: T Q DANG
Tech. Officer: LERC/D P MILLER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1630 SYRACUSE UNIVERSITY **7431**
EFFECTS OF GRAVITY AND SHEAR ON THE DYNAMICS AND S TANILITY OF PARTICULATE AND MULITPHASE FLOW
06/24/1994 – 06/23/1996 FY97: $0 Total: $100,000
Prin. Invest.: A S SANGANI
Tech. Officer: LERC/H K NAHRA
CASE Category: 43 – CHEMICAL ENGR

NAG 3 1853 SYRACUSE UNIVERSITY **7432**
BEHAVIOR OF RAPIDLY SHEARED BUBBLY SUSPENSIONS
05/01/1996 – 04/30/2000 FY97: $135,441 Total: $255,441
Prin. Invest.: A S SANGANI, D L KOCH
Tech. Officer: LERC/H K NAHRA, LERC/B MOTIL
CASE Category: 43 – CHEMICAL ENGR

NAG 3 1933 SYRACUSE UNIVERSITY **7433**
EVALUATION OF 3D INVERSE CODE USING ROTOR 37 AND 6 7 TEST CASES
08/02/1996 – 12/30/1996 FY97: $0 Total: $8,193
Prin. Invest.: T DANG
Tech. Officer: LERC/D REDDY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1982 SYRACUSE UNIVERSITY **7434**
WORKSHOP ON BOUNDARY LAYER TRANSITION IN TURBOMACHINES
11/07/1996 – 01/31/1998 FY97: $6,000 Total: $6,000
Prin. Invest.: J E LAGRAFF
Tech. Officer: LERC/D E ASHPIS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 2280 SYRACUSE UNIVERSITY **7435**
HIGH PERFORMANCE COMPUTING AND FOUR-DIMENSIONAL DA TA ASSIMILATION
05/26/1993 – 09/30/1996 FY97: $0 Total: $350,000
Prin. Invest.: G C FOX, K MILLS
Tech. Officer: GSFC/R B ROOD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4998 SYRACUSE UNIVERSITY **7436**
EXPERIMENTAL STUDIES OF HYDROGENATION AND OTHER RE UNDER ASTROPHYSICALLY RELEVANT CONDITIONS
07/21/1997 – 07/14/1998 FY97: $35,425 Total: $35,425
Prin. Invest.: G VIDALID
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAGW 2932 SYRACUSE UNIVERSITY **7437**
HYDROGEN RECOMBINATION ON SURFACES OF INSTELLAR GR AIN ANA-LOGUES: A LABORATORY INVESTIGATION
02/28/1992 – 07/20/1997 FY97: $0 Total: $388,286
Prin. Invest.: G VIDALI
Tech. Officer: HQ/L CAROFF
CASE Category: 13 – PHYSICS

NAS 1 20478 SYRACUSE UNIVERSITY **7438**
DEFINITION OF REQUIREMENTS FOR AN AERONAUTICS AFFO RDABLE SYSTEMS OPTIMIZATION PROCESS
05/25/1995 – 06/24/1996 FY97: $0 Total: $500,173
Prin. Invest.: M CLARK
Tech. Officer: LARC/D H RUDY
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 70380 SYRACUSE UNIVERSITY **7439**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
09/02/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: T DENG
Tech. Officer: HQ/D K RUSSELL
CASE Category: 49 – ENGINEERING, OTHER

NGT 1 52169 SYRACUSE UNIVERSITY **7440**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
05/07/1997 – 06/30/1998 FY97: $10,000 Total: $10,000
Prin. Invest.: M A KEGERISE, E F SPINA
Tech. Officer: LARC/C B MCGINLEY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 958 UNIVERSITY OF ROCHESTER **7441**
MOLECULAR SHOCKS ASSOCIATED WITH MASSIVE YOUNG STA RS: CO LINE IMAGES WITH A NEW FAR-INFRARED
01/25/1995 – 09/30/1996 FY97: $0 Total: $30,000
Prin. Invest.: D M WATSON
Tech. Officer: ARC/C D LAUGHLIN, ARC/C M GILLESPIE
CASE Category: 11 – ASTRONOMY

NAG 2 975 UNIVERSITY OF ROCHESTER **7442**
DEVELOPMENT OF DETECTOR ARRAYS FOR LOW-BACKGROUND SPACE ASTRONOMY
06/17/1995 – 05/31/1998 FY97: $65,000 Total: $141,000
Prin. Invest.: W J FORREST, J L PIPHER
Tech. Officer: ARC/J H GOEBEL, ARC/C R MCCREIGHT
CASE Category: 45 – ELECTRICAL ENGR

NAG 2 1142 UNIVERSITY OF ROCHESTER **7443**
PROPOSAL FOR INFRARED SUBMILLIMETER, AND RADIO AST RONOMY
07/22/1997 – 05/31/1998 FY97: $351,000 Total: $351,000
Prin. Invest.: W J FORREST, J L PIPHER
Tech. Officer: ARC/C R MCCREIGHT, ARC/R E MCMURRAY
CASE Category: 13 – PHYSICS

NAG 5 3369 UNIVERSITY OF ROCHESTER **7444**
A SEARCH FOR BORWN DWARFS IN THE HAYDES
08/28/1996 – 08/31/1997 FY97: $0 Total: $115,300
Prin. Invest.: W J FORREST
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4976 UNIVERSITY OF ROCHESTER **7445**
DEVELOPMENT OF GE:GA BLOCKED-IMPURITY-BAND DETECTO RED ASTRONOMY
07/10/1997 – 05/31/1998 FY97: $75,000 Total: $75,000
Prin. Invest.: D M WATSON
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 6119 UNIVERSITY OF ROCHESTER **7446**
SUNSPOT DYNAMICS
08/08/1997 – 08/31/1998 FY97: $85,300 Total: $85,300
Prin. Invest.: D H THOMAS
Tech. Officer: GSFC/W J WAGNER
CASE Category: 11 – ASTRONOMY

NAG 5 6267 UNIVERSITY OF ROCHESTER **7447**
DEVELOPMENT OF LOW DARK CURRENT, HIGH QUANTUM EFFI R PAS-SIVELY COOLED SPACE EXPERIMENTS
08/21/1997 – 06/30/1998 FY97: $221,000 Total: $221,000
Prin. Invest.: D L PIPHER
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 8 1382 UNIVERSITY OF ROCHESTER **7448**
RESEARCH "EX VIVO HEMOPOIESIS IN A THREE-DIMENSION AL HUMAN BONE CULTURE UNDER SIMULATED MICROGRAVIT
06/10/1997 – 11/30/1997 FY97: $89,000 Total: $89,000
Prin. Invest.: D WU
Tech. Officer: MSFC/C TALLEY
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 2123 UNIVERSITY OF ROCHESTER **7449**
SUNSPOT DYNAMICS
06/06/1990 – 08/31/1997 FY97: $82,800 Total: $481,900
Prin. Invest.: J H THOMAS
Tech. Officer: HQ/J D BOHLIN, HQ/S KANE
CASE Category: 13 – PHYSICS

NAGW 2356 UNIVERSITY OF ROCHESTER **7450**
CENTER FOR SPACE ENVIRONMENTAL HEALTH (CSEH)
01/30/1991 – 12/31/1996 FY97: $0 Total: $5,095,557
Prin. Invest.: T W CLARKSON
Tech. Officer: HQ/R J WHITE
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 2393 UNIVERSITY OF ROCHESTER **7451**
ALTERNATE DETECTOR TECHNOLOGIES FOR SIRTF
04/17/1991 – 03/31/1996 FY97: $0 Total: $630,654
Prin. Invest.: J L PIPHER
Tech. Officer: HQ/M BICAY
CASE Category: 11 – ASTRONOMY

NAGW 2444 UNIVERSITY OF ROCHESTER **7452**
NAGW-2444/UNIV ROCHESTER/SEISMOLOGY OF ROTATING, MAGNETIC STARS
07/01/1991 – 08/31/1996 FY97: $0 Total: $635,600
Prin. Invest.: J H THOMAS
Tech. Officer: HQ/G S KUTTER, HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 4599 UNIVERSITY OF ROCHESTER **7453**
NASA/NIEHS WORKSHOP TO IDENTIFY MUTUAL AREAS OF RE SEARCH
06/26/1995 – 09/30/1995 FY97: –$19,169 Total: $15,931
Prin. Invest.: M J UTELL
Tech. Officer: HQ/V R THORNE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4820 UNIVERSITY OF ROCHESTER **7454**
SPECTROSCOPIC IMAGING OF JUPITER SL9 WITH ROCHESTER 1-5 CAMERA AT WIRO
10/06/1995 – 06/30/1997 FY97: $0 Total: $24,984
Prin. Invest.: J PIPHER
Tech. Officer: HQ/E BARKER
CASE Category: 11 – ASTRONOMY

NCC 2 5149 UNIVERSITY OF ROCHESTER **7455**
COMPUTATIONAL MODELING OF SEMICONDUCTOR DYNAMICS A T FEMTOSECOND TIME SCALES
08/09/1995 – 08/31/1998 FY97: –$2,010 Total: $76,590
Prin. Invest.: G AGRAWAL
Tech. Officer: ARC/P M GOORJIAN
CASE Category: 45 – ELECTRICAL ENGR

NAG 2 1033 YESHIVA UNIVERSITY **7456**
MULTIDISCIPLINARY STUDIES OF NEURAL PLASTICITY IN SPACE
05/08/1996 – 06/30/1998 FY97: $144,121 Total: $212,652
Prin. Invest.: R S ZUKIN
Tech. Officer: ARC/M D ROSS, ARC/N G DAUNTON
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NORTH CAROLINA

NAG 1 1321 APPALACHIAN STATE UNIVERSITY **7457**
A HYPERTEXT BASED PILOT OPERATIONS AND PROCEDURES MANUAL
08/13/1991 – 10/31/1996 FY97: –$5,810 Total: $131,450
Prin. Invest.: C R RUSSELL
Tech. Officer: LARC/T S ABBOTT, LARC/M T PALMER
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 3483 BENNETT COLLEGE **7458**
MATHEMATICS, SCIENCE AND TECHNOLOGY AWARDS FOR TEA HANCEMENT PROGRAM
12/04/1996 – 06/30/1997 FY97: $288,152 Total: $288,152
Prin. Invest.: D OLIVER
Tech. Officer: GSFC/M MATEU
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 4980 BENNETT COLLEGE **7459**
PRECOLLEGE AWARDS FOR EXCELLENCE IN MATHEMATICS, S TECHNOLOGY (PACE)
07/07/1997 – 05/31/1998 FY97: $95,100 Total: $95,100
Prin. Invest.: M COTTON
Tech. Officer: GSFC/M STOUTSENBERGER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4531 BENNETT COLLEGE **7460**
SCHOLARS FOR EXCELLENCE IN MATHEMATICS, SCIENCE, ENGINEERING AND TECHNOLOGY
05/18/1995 – 05/30/1997 FY97: $95,100 Total: $192,700
Prin. Invest.: J MCCRARY
Tech. Officer: HQ/B L WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4634 BENNETT COLLEGE **7461**
MATHEMATICS, SCIENCE & TECHNOLOGY AWARDS FOR TEACH ER & CURRICULUM ENHANCEMENT PROGRAM (MASTAP)
07/31/1995 – 06/30/1998 FY97: $0 Total: $161,848
Prin. Invest.: D OLIVER
Tech. Officer: HQ/B WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 1 1569 DUKE UNIVERSITY **7462**
EXPERIMENTAL AND THEORETICAL AEROELASTIC STUDY OF A WING AND CONTROL-SURFACE WITH FREE PLAY
02/02/1994 – 01/31/1998 FY97: $20,833 Total: $95,867
Prin. Invest.: E H DOWELL
Tech. Officer: LARC/S R COLE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1570 DUKE UNIVERSITY **7463**
ACTIVE STRUCTURAL ACOUSTIC CONTROL OF PERSISTENT, IMPULSIVE AND BROADBAND DISTURBANCES
01/14/1994 – 01/13/1997 FY97: $0 Total: $221,793
Prin. Invest.: R L CLARK
Tech. Officer: LARC/R J SILCOX, LARC/K P SHEPHERD
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 1002 DUKE UNIVERSITY **7464**
EXPRESSION OF CONTRACTILE PROTEIN ISOFORMS IN MICR OGRAVITY
08/25/1995 – 06/30/1998 FY97: $0 Total: $111,226
Prin. Invest.: P ANDERSON
Tech. Officer: ARC/C M WINGET, ARC/G C JAHNS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 3 1433 DUKE UNIVERSITY **7465**
AEROACOUSTIC SENSITIVITY ANALYSIS & OPTIMAL AEROAC OUSTIC DESIGN OF TURBOMACHINERY BLADES
01/15/1993 – 11/23/1997 FY97: $79,449 Total: $271,658
Prin. Invest.: K HALL
Tech. Officer: LERC/D HOYNIAK, LERC/D L HUFF
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1838 DUKE UNIVERSITY **7466**
DENSITY EQUILIBATION IN FLUIDS NEAR THE LIQUIRD-VA POR CRITIAL POINT
04/22/1996 – 04/30/2000 FY97: $51,000 Total: $138,000
Prin. Invest.: H MEYER
Tech. Officer: LERC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 3 1917 DUKE UNIVERSITY **7467**
DYNAMICS OF GRANULAR MATERIAL
07/15/1996 – 07/15/2000 FY97: $60,000 Total: $172,000
Prin. Invest.: R BEHRINGER
Tech. Officer: LERC/E NELSON
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 5 3665 DUKE UNIVERSITY **7468**
A STUDY OF CARBON MONOXIDE USING TRACE CONSTITUENT DATA ASSIMILATION: A NEW APPROACH IN GLOBAL
01/15/1997 – 12/31/1997 FY97: $216,915 Total: $216,915
Prin. Invest.: P KABIBHATLA
Tech. Officer: GSFC/R ROOD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4491 DUKE UNIVERSITY **7469**
FACTORS AFFECTING DECOMPRESSION SICKNESS IN ASTRON EXTRAVE-HICULAR ACTIVITY
04/30/1997 – 11/30/1997 FY97: $89,986 Total: $89,986
Prin. Invest.: R D VANN
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 5148 DUKE UNIVERSITY **7470**
MONITORING THE EFFECTS OF FIRES IN BOREAL FORESTS USING IMAG-ING RADARS
07/11/1997 – 05/31/1998 FY97: $60,136 Total: $60,136
Prin. Invest.: E KASISCHKE
Tech. Officer: GSFC/D WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 8 966 DUKE UNIVERSITY **7471**
CRYSTALLIZATION OF SOLUTION PROPERTIES OF REDESIGN ED PROTEIN SUFACES
08/10/1993 – 06/30/1997 FY97: $0 Total: $215,739
Prin. Invest.: D C RICHARDSON
Tech. Officer: MSFC/D CARTER
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 9 810 DUKE UNIVERSITY **7472**
SKELETAL MUSCLE DEVELOPMENT & DIFFERENTIATION IN V ITRO BY MECHANICAL & CHEMICAL FACTORS
09/13/1995 – 09/17/1998 FY97: $144,761 Total: $446,758
Prin. Invest.: W E KRAUS
Tech. Officer: JSC/N PELLIS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 9 939 DUKE UNIVERSITY **7473**
EXPERIMENTAL TRIALS TO TEST OXYGEN PREBREATHE PRO TOCOLS FOR SPACE STATION CONSTRUCTION
04/15/1997 – 07/15/1998 FY97: $135,000 Total: $135,000
Prin. Invest.: R VANN
Tech. Officer: JSC/M POWELL
CASE Category: 56 – MEDICL

NAGW 4299 DUKE UNIVERSITY **7474**
SPACE ENGINEERING
02/13/1995 – 08/31/1996 FY97: $0 Total: $26,340
Prin. Invest.: F H COCKS
Tech. Officer: HQ/A S MCGEE, HQ/G JOHNSTON
CASE Category: 49 – ENGINEERING, OTHER

NAGW 4417 DUKE UNIVERSITY **7475**
FACTORS AFFECTING DCS IN ASTRONAUNTS DURING EVA
04/21/1995 – 09/30/1997 FY97: $0 Total: $188,251
Prin. Invest.: R D VANN
Tech. Officer: HQ/F SULZMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4483 DUKE UNIVERSITY **7476**
MONITORING THE EFFECTS OF FIRE IN BOREAL FORESTS U SING IMAG-ING RADARS
05/13/1995 – 05/31/1997 FY97: $0 Total: $120,009
Prin. Invest.: E KASISOHKE, N L CHRISTENSEN, NONE
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 1 250 DUKE UNIVERSITY **7477**
ACTIVE CONTROL STRAATEGIES AND TRANSDUCTION DEVICE FOR INTERIOR_NOISE CONTROL
02/06/1997 – 12/31/1997 FY97: $103,125 Total: $103,125
Prin. Invest.: R L CLARK
Tech. Officer: LARC/D E COX
CASE Category: 46 – MECHANICAL ENGR

NCC 5 233 DUKE UNIVERSITY **7478**
A GROUND–TRUTHING PROGRAM IN SUPPORT OF THE VEGETA MISSION.
09/03/1997 – 08/31/1998 FY97: $39,437 Total: $39,437
Prin. Invest.: D L URBAN
Tech. Officer: GSFC/R KNOX
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 9 42 DUKE UNIVERSITY **7479**
BIOPHYSICAL, MATHEMATICAL MODELS OF GAS FORMATION
09/25/1995 – 10/01/1997 FY97: $35,150 Total: $67,650
Prin. Invest.: W GERTH
Tech. Officer: JSC/M POWELL
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NGT 30199 DUKE UNIVERSITY **7480**
GLOBAL CHANGE FELLOWSHIP PROGRAM
09/01/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: W H SCHLESINGER
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30253 DUKE UNIVERSITY **7481**
NGT–30253/DUKE UNIV/GLOBAL CHANGE FELLOWSHIP PROGRAM
10/02/1994 – 08/31/1998 FY97: $0 Total: $66,000
Prin. Invest.: N L CHRISTENSEN JR.
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30301 DUKE UNIVERSITY **7482**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/08/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: W H SCHLESINGER
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30302 DUKE UNIVERSITY **7483**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/08/1995 – 08/31/1997 FY97: –$19,645 Total: $44,000
Prin. Invest.: W H SCHLESINGER
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30305 DUKE UNIVERSITY **7484**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/16/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: R RICHTER
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30333 DUKE UNIVERSITY **7485**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/16/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: B STRAIN
Tech. Officer: HQ/D E WICKLAND, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 51310 DUKE UNIVERSITY **7486**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/29/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: D B BLISS
Tech. Officer: ARC/M MOORE
CASE Category: 46 – MECHANICAL ENGR

NGT 51313 DUKE UNIVERSITY **7487**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/23/1994 – 05/31/1996 FY97: $0 Total: $29,925
Prin. Invest.: J B DUGAN
Tech. Officer: ARC/M MOORE
CASE Category: 22 – COMPUTER SCIENCE

NGT 2 52236 DUKE UNIVERSITY **7488**
UTILIZATION OF KNOW PHYLOGENIES FOR ASSESSING & IM PROVING RECONSTRUCTION OF THE HISTORY OF LIFE....
09/23/1997 – 07/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: C CUNNINGHAM
Tech. Officer: ARC/J D FARMER, ARC/S CHANG
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 5 30055 DUKE UNIVERSITY **7489**
THIRD YEAR FUNDING: "FOREST SOILS AS A SINK FOR A INTERACTIONS BETWEEN ELEVATED CO2 AND FOREST GROW
09/11/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: W H SCHLESINGER
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30057 DUKE UNIVERSITY **7490**
"EFFECTS OF PLANT CO2 RESPONSE ON SOIL FERTILITY: FACTORS CONTROLLING CARBON STORAGE IN THE BIOSPHER
09/06/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: W H SCHLESINGER
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30065 DUKE UNIVERSITY **7491**
GLOBAL CHANGE FELLOWSHIP PROGRAM: THE GROWTH RESP TREE SPECIES TO ELEVATED CO2 AND REDUCED SOIL MOI
09/09/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: B STRAIN
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 8 52842 DUKE UNIVERSITY **7492**
GRADUATE STUDENT RESEARCH PROGRAM
07/30/1997 – 06/01/2000 FY97: $22,000 Total: $22,000
Prin. Invest.: L N VIRGIN
Tech. Officer: MSFC/JDOWDY
CASE Category: 46 – MECHANICAL ENGR

NAG 5 4924 EAST CAROLINA UNIVERSITY **7493**
MONITORING THE EFFECTS OF FIRES IN BOREAL FORESTS
06/25/1997 – 04/30/1998 FY97: $24,674 Total: $24,674
Prin. Invest.: Y WANG
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4505 EAST CAROLINA UNIVERSITY **7494**
MONITORING THE EFFECTS OF FIRES IN THE BOREAL FORE STS
05/31/1995 – 09/30/1997 FY97: $0 Total: $50,452
Prin. Invest.: Y WANG, E KASISCHKE
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 2 864 EAST CAROLINA UNIVERSITY **7495**
MICROGRAVITY & PLACENTAL DEVELOPMENT
06/23/1994 – 04/30/1997 FY97: $0 Total: $153,712
Prin. Invest.: R H RENEGAR
Tech. Officer: ARC/D A REISS–BUBENHEIM, ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 2 866 EAST CAROLINA UNIVERSITY **7496**
PHYSIOLOGICAL ANATOMICAL RODENT EXPERIMENT (PARE) .04; FLIGHT SUPPORT
07/05/1994 – 04/14/1997 FY97: –$4,347 Total: $82,120
Prin. Invest.: H W BURDEN, NONE
Tech. Officer: ARC/D A REISS–BUBENHEIM, ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 5172 ELIZABETH CITY STATE UNIVERSITY **7497**
DR. C. D. TURNAGE PACE/MSET PROGRAM
11/22/1996 – 06/30/1997 FY97: $100,000 Total: $100,000
Prin. Invest.: S S SACHDEV
Tech. Officer: HQ/B WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 5 121 ELIZABETH CITY STATE UNIVERSITY **7498**
REGIONAL NETWORK RESOURCES AND TRAINING SITE AT ECSU
08/15/1995 – 08/14/1997 FY97: $550,000 Total: $1,550,000
Prin. Invest.: L HAYDEN
Tech. Officer: GSFC/J BENNETT
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1928 FAYETTEVILLE STATE UNIVERSITY **7499**
PRESERVICE/INSERVICE/MODEL FOR TEACHING INTEGRATED MATH/SCIENCE WITH TECHNOLOGY (TIMS/T)
05/20/1997 – 05/31/1998 FY97: $360,000 Total: $360,000
Prin. Invest.: L EDWARD, JR.
Tech. Officer: LARC/S CANRIGHT, LARC/E PRIOR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 3 2072 FAYETTEVILLE STATE UNIVERSITY **7500**
GENERATING ELECTRONIC MATERIALS (GEM) FOR TEACHING /LEARNING MATHEMATIC AND SCIENCE TEACHER TRAINING
07/28/1997 – 08/31/1998 FY97: $27,000 Total: $27,000
Prin. Invest.: L EWARDS
Tech. Officer: LERC/R F LAWRENCE
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 5 6095 FAYETTEVILLE STATE UNIVERSITY **7501**
PACE/MSET AWARD
09/10/1997 – 08/31/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: L EDWARDS
Tech. Officer: GSFC/M STOUTSENBERGER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 996 FAYETTEVILLE STATE UNIVERSITY **7502**
JOVE
11/19/1993 – 05/31/1998 FY97: $12,500 Total: $69,494
Prin. Invest.: J WU
Tech. Officer: MSFC/F SIX
CASE Category: 13 – PHYSICS

NAGW 3083 FAYETTEVILLE STATE UNIVERSITY **7503**
TIMS A MODEL FORE PRE–SERVICE AND IN–SERVICE TEACHER TRAINING MIDDLE SCHOOL LEVEL
05/15/1992 – 05/31/1997 FY97: $0 Total: $117,016
Prin. Invest.: L EDWARDS
Tech. Officer: HQ/D GALLAWAY
CASE Category: 21 – MATHEMATICS

NAGW 5166 FAYETTEVILLE STATE UNIVERSITY **7504**
PACE/MSET PROGRAM
09/05/1996 – 06/30/1997 FY97: $0 Total: $100,000
Prin. Invest.: D EDWARDS
Tech. Officer: HQ/B WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90040 FAYETTEVILLE STATE UNIVERSITY **7505**
MINORITY SCIENCE ENGINEERING PROGRAM
08/30/1991 – 08/31/1996 FY97: $0 Total: $284,039
Prin. Invest.: L EDWARDS
Tech. Officer: HQ/B WHITE
CASE Category: 49 – ENGINEERING, OTHER

NGT 90244 FAYETTEVILLE STATE UNIVERSITY **7506**
NGT 90244/B FAYETTEVILLE STATE UNIV. "GRAPHING CA LCULATOR INSTITUTE"
05/03/1994 – 03/31/1997 FY97: $0 Total: $148,331
Prin. Invest.: L EDWARDS, NONE
Tech. Officer: HQ/B L WHITE
CASE Category: 21 – MATHEMATICS

NGT 5 90055 FAYETTEVILLE STATE UNIVERSITY **7507**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
03/13/1997 – 08/14/1997 FY97: $84,325 Total: $84,325
Prin. Invest.: L EDWARDS
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 22 – COMPUTER SCIENCE

NGT 5 90071 FAYETTEVILLE STATE UNIVERSITY **7508**
NASA TECHNOLOGY INSTITUTE (FORMERLY GRAPHING CALCU
05/22/1997 – 03/31/1998 FY97: $86,853 Total: $86,853
Prin. Invest.: L EDWARDS
Tech. Officer: GSFC/L RANDOLPH
CASE Category: 21 – MATHEMATICS

NAG 8 223 GUILFORD COLLEGE **7509**
JOVE
01/24/1992 – 05/31/1997 FY97: $0 Total: $102,937
Prin. Invest.: C ALMY, T ESPINOLA
Tech. Officer: MSFC/F SIX
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 3 2022 JOHNSON C. **SMITH UNIVERSITY** **7510**
CONSERVATION/SOLUTION METHOD (STE) FOR LINEAR POTE NTIAL FLOW PROBLEMS
03/10/1997 – 03/09/1998 FY97: $99,936 Total: $99,936
Prin. Invest.: J O ADEYEYE
Tech. Officer: LERC/J R SCOTT
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 1 956 NORTH CAROLINA A&T STATE UNIVERSITY **7511**
A SPACE TECHNOLOGY DEVELOPMENT AND UTILIZATION PROGRAM
01/13/1989 – 10/31/1997 FY97: $401,500 Total: $6,134,124
Prin. Invest.: L SHARPE, A HOMAIFAR, A CHOWDHURY
Tech. Officer: LARC/S E MASSENBERG, LARC/E J PRIOR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 1 997 NORTH CAROLINA A&T STATE UNIVERSITY **7512**
DYNAMIC ANALYSIS OF THE JOINT DOMINATED BEAM
05/03/1989 – 07/31/1997 FY97: $1 Total: $169,173
Prin. Invest.: D M MC GINLEY, W M MCGINLEY
Tech. Officer: LARC/R C MONTGOMERY
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 1 1454 NORTH CAROLINA A&T STATE UNIVERSITY **7513**
DEVELOPMENT OF PREDICTIVE MODELS USING REMOTELY SENSED DATA FOR SIMULATING DAMAGE POTENTIALS TO NA
09/18/1992 – 12/31/1996 FY97: $1 Total: $353,458
Prin. Invest.: G A UZOCHUKWU, E U NZEWI, G A GAYLE
Tech. Officer: LARC/R L YANG, GSFC/E LEVINE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 1 1604 NORTH CAROLINA A&T STATE UNIVERSITY **7514**
ASSESSMENT OF LARGE DEFORMATION IN MULTIPLE DELAM INATED COMPOSITE LAMINATES SUJECTED TO A TRANSVERS
02/01/1994 – 01/31/1997 FY97: $0 Total: $214,806
Prin. Invest.: K N SHIVAKUMAR, V S AVVA, R L SADLER
Tech. Officer: LARC/C C POE JR., LARC/W C JACKSON
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 1754 NORTH CAROLINA A&T STATE UNIVERSITY **7515**
THREE–DIMENSIONAL GEOMETRIC NONLINEAR CONTACT STRE SS ANALYSIS OF A TWO–RIVET LAP JOINT
09/18/1995 – 09/17/1997 FY97: $43,000 Total: $95,894
Prin. Invest.: K N SHIVAKUMAR
Tech. Officer: LARC/J C NEWMAN, JR., LARC/I S RAJU
CASE Category: 46 – MECHANICAL ENGR

NAG 1 1874 NORTH CAROLINA A&T STATE UNIVERSITY **7516**
PHENYLETHYNYL CONTAINING POLYARYLENE ETHERS/ POLYIMIDES RESIN INFILTRATION OF COMPOSITES
09/27/1996 – 09/30/1998 FY97: $100,000 Total: $200,000
Prin. Invest.: D O DUNN*Prin. Invest.:* NONE
Tech. Officer: LARC/B J JENSEN
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 1956 NORTH CAROLINA A&T STATE UNIVERSITY **7517**
APPROACHES TO DESIGN AND EVALUATION OF SANDWICH COMPOSITES.NLPN 97–514
07/10/1997 – 05/31/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: K N SHIVAKUMAR
Tech. Officer: LARC/I S RAJU, LARC/C C POE
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 2 1150 NORTH CAROLINA A&T STATE UNIVERSITY **7518**
MOTION PLANNING IN A SOCIETY OF INTELLIGENT MOBILE AGENTS
08/22/1997 – 08/14/1998 FY97: $132,268 Total: $132,268
Prin. Invest.: A C ESTERLINE
Tech. Officer: ARC/G S LEE
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 3 1432 NORTH CAROLINA A&T STATE UNIVERSITY **7519**
GRAPHITE FIBER TEXTILE PREFORM/COPPER MATRIX COMPO SITE
12/30/1992 – 03/31/1997 FY97: $0 Total: $474,002
Prin. Invest.: G J FILATOVS, R L SADLER
Tech. Officer: LERC/R V MINER
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1452 NORTH CAROLINA A&T STATE UNIVERSITY **7520**
DEVELOPMENT OF PROCESSING, FABRICATION & EVALUATIO N OF GRAPHITE FIBER–REINFORCED POLYMIDE TUBES
02/08/1993 – 12/31/1996 FY97: $0 Total: $364,754
Prin. Invest.: V S AVVA, R L SADLER
Tech. Officer: LERC/R D VANNUCCI
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1734 NORTH CAROLINA A&T STATE UNIVERSITY **7521**
COMPUTATIONAL ASSESSMENT OF FAN BY–PASS SYSTEM DES IGNIN ADVANCED DUCT PROPULSORS
04/01/1995 – 09/30/1998 FY97: $56,709 Total: $143,973
Prin. Invest.: S CHANDRA, F FERGUSON, R KRISHNAMURTHY
Tech. Officer: LERC/K J KACYNSKI
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1835 NORTH CAROLINA A&T STATE UNIVERSITY **7522**
ROBUST, BRILLOUIN ACTIVE EMBEDDED FIBER–IS–THE–SEN SOR SYSTEM IN SMART COMPOSITE
04/22/1996 – 04/21/1998 FY97: $23,744 Total: $165,409
Prin. Invest.: D YU
Tech. Officer: LERC/E B CLARK
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 2055 NORTH CAROLINA A&T STATE UNIVERSITY **7523**
FEASBILITY INVESTIGATION ON THE DEVELOPMENT OF A S TRUCTURAL DAMAGE DIAGNOSTICAND MONITORING
07/01/1997 – 06/30/1998 FY97: $25,000 Total: $25,000
Prin. Invest.: J Y SHEN, C SHARPE
Tech. Officer: LERC/D F NOGA, LERC/A L JANKOVSKY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 4 118 NORTH CAROLINA A&T STATE UNIVERSITY **7524**
MULTIDISCIPLINARY MODELING & SIMULATION OF AEROSPACE VEHICLE SYSTEMS
03/27/1997 – 03/27/1998 FY97: $87,860 Total: $87,860
Prin. Invest.: M HUMAN
Tech. Officer: DFRC/K K GUPTA, DFRC/L S VOELKER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 4 131 NORTH CAROLINA A&T STATE UNIVERSITY **7525**
ARTIFICIAL POTENTIAL FIELD BASED MOTION PLANNING/ NAVIGATION IN 2 & 3 DIMENSIONAL DYNAMIC ENVIRON.
06/06/1997 – 06/06/1999 FY97: $176,908 Total: $176,908
Prin. Invest.: G V DOZIER
Tech. Officer: DFRC/K GUPTA
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 4 132 NORTH CAROLINA A&T STATE UNIVERSITY **7526**
HYBRID MOTION PLANNING WITH MULTIPLE DESTINATIONS NEW AWARD
06/10/1997 – 06/10/1998 FY97: $91,002 Total: $91,002
Prin. Invest.: A HOMAIFAR
Tech. Officer: DFRC/K GUPTA
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 3110 NORTH CAROLINA A&T STATE UNIVERSITY **7527**
DYNAMICS OF MASS TRANSFER IN CLOSE INTERACTING BINARIES
10/12/1995 – 10/14/1997 FY97: $0 Total: $31,000
Prin. Invest.: J M BLONDIN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4102 NORTH CAROLINA A&T STATE UNIVERSITY **7528**
FORMAL FOUNDATIONS OF AGENTS
03/31/1997 – 11/30/1997 FY97: $99,688 Total: $99,688
Prin. Invest.: A ESTERLINE
Tech. Officer: GSFC/W TRUSZKOWSKI
CASE Category: 22 – COMPUTER SCIENCE

NAG 8 1142 NORTH CAROLINA A&T STATE UNIVERSITY **7529**
ROCKET ENGINE STUDY
05/15/1995 – 12/31/1997 FY97: $0 Total: $69,729
Prin. Invest.: K JONES
Tech. Officer: MSFC/J RUF
CASE Category: 49 – ENGINEERING, OTHER

NAG 8 1247 NORTH CAROLINA A&T STATE UNIVERSITY **7530**
DEVELOPMENT & TESTING OF A VIBROMETRY TECHNIQUE FOR HEALTH MONITORING OF COMPOSITE MATERIAL STRUCT
10/31/1996 – 10/31/1999 FY97: $98,039 Total: $98,039
Prin. Invest.: D J SCHULZ
Tech. Officer: MSFC/C WILKERSON
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 1396 NORTH CAROLINA A&T STATE UNIVERSITY **7531**
R/S "SOLUTION POLYMERIZATION OF THERMOSETS IN 1-G AND MICROGRAVITY ENVIRONMENT"
08/28/1997 – 08/27/1998 FY97: $97,698 Total: $97,698
Prin. Invest.: A P KENNEDY
Tech. Officer: MSFC/B PENN
CASE Category: 12 – CHEMISTRY

NAG 9 973 NORTH CAROLINA A&T STATE UNIVERSITY **7532**
INTELLIGENT AGENTS–BASED SCHEDULING
09/25/1997 – 12/31/1999 FY97: $70,035 Total: $70,035
Prin. Invest.: B RAM
Tech. Officer: JSC/J D ERICK SUN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 2924 NORTH CAROLINA A&T STATE UNIVERSITY **7533**
THE CENTER FOR AEROSPACE RESEARCH
02/28/1992 – 03/31/1997 FY97: $518,575 Total: $7,512,882
Prin. Invest.: J C KELLY JR.
Tech. Officer: HQ/S E MASSENBERG, HQ/S HARTMAN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG10 201 NORTH CAROLINA A&T STATE UNIVERSITY **7534**
CLEANING OF CONTAMINATED SUBSTRATES
10/23/1996 – 10/23/1998 FY97: $186,400 Total: $186,400
Prin. Invest.: G WHITE
Tech. Officer: KSC/G ALLEN
CASE Category: 43 – CHEMICAL ENGR

NAS 1 19157 NORTH CAROLINA A&T STATE UNIVERSITY **7535**
EXPERIMENTAL, DEVELOPMENTAL AND BASIC AND APPLIED RESEARCH
08/03/1990 – 08/02/1998 FY97: $216,000 Total: $4,654,864
Prin. Invest.: L SHARPE
Tech. Officer: LARC/S E MASSENBERG, LARC/E J PRIOR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAS 3 96055 NORTH CAROLINA A&T STATE UNIVERSITY **7536**
NEW MECHANISTIC CONSTITUTIVE MODEL FOR HIGH TEMPER ATURE CMCS UNDER MONOTONIC CYCLIC LOADING
11/05/1996 – 03/15/1998 FY97: $60,000 Total: $60,000
Prin. Invest.: J SANKAR, A D KELKAR
Tech. Officer: LERC/R BHATT, LERC/E HANES
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 1 255 NORTH CAROLINA A&T STATE UNIVERSITY **7537**
THE CENTER FOR AEROSPACE RESEARCH: A NASA CENTER OF EXCELLENCE
05/13/1997 – 12/31/1997 FY97: $700,000 Total: $700,000
Prin. Invest.: E O DOSE
Tech. Officer: LARC/W WHIGGLOW, JR.
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 987 NORTH CAROLINA A&T STATE UNIVERSITY **7538**
PERFORMANCE MODELING OF A PILOT IN A FREE–FLIGHT M ODE
04/10/1997 – 01/31/1998 FY97: $77,000 Total: $77,000
Prin. Invest.: C A NTUEN
Tech. Officer: ARC/R K DISMAKES
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 4 105 NORTH CAROLINA A&T STATE UNIVERSITY **7539**
ON THE PREVIEWED CONTROL ACTION FOR AIRCRAFT FLYING QUALITIES
07/25/1996 – 09/30/1997 FY97: $50,000 Total: $100,000
Prin. Invest.: D HOMAIFAR
Tech. Officer: DFRC/R K BOGUE
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 90083 NORTH CAROLINA A&T STATE UNIVERSITY **7540**
NGT–90083/NC A&T STATE UNIV/UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
09/26/1992 – 12/31/1999 FY97: –$537 Total: $47,463
Prin. Invest.: L SHARPE
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90084 NORTH CAROLINA A&T STATE UNIVERSITY **7541**
NGT–90084/NC A&T STATE UNIV/UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
09/26/1992 – 08/14/1996 FY97: $0 Total: $48,000
Prin. Invest.: L SHARPE
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90085 NORTH CAROLINA A&T STATE UNIVERSITY **7542**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
09/12/1992 – 08/14/1996 FY97: –$108,201 Total: $47,799
Prin. Invest.: L SHARPE
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90086 NORTH CAROLINA A&T STATE UNIVERSITY **7543**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
09/12/1992 – 08/14/1996 FY97: –$1,026 Total: $46,974
Prin. Invest.: L SHARPE
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90087 NORTH CAROLINA A&T STATE UNIVERSITY **7544**
NGT–90087/NC A&T STATE UNIV/UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
09/12/1992 – 08/14/1996 FY97: –$16,665 Total: $31,335
Prin. Invest.: L SHARPE
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90088 NORTH CAROLINA A&T STATE UNIVERSITY **7545**
NGT–90088/NC A&T STATE U/UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
09/12/1992 – 08/14/1996 FY97: $0 Total: $48,000
Prin. Invest.: L SHARPE
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90256 NORTH CAROLINA A&T STATE UNIVERSITY **7546**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
01/11/1995 – 08/14/1996 FY97: –$5,000 Total: $19,000
Prin. Invest.: L SHARPE
Tech. Officer: HQ/D K RUSSELL
CASE Category: 45 – ELECTRICAL ENGR

NGT 1 52119 NORTH CAROLINA A&T STATE UNIVERSITY **7547**
GRADUATE STUDENT RESEARCHER PROGRAM (GSRP) URM&D FOCUS
06/29/1995 – 06/30/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: M A WALDEN
Tech. Officer: LARC/J JUANG
CASE Category: 42 – ASTRONAUTICAL ENGR

NGT 1 52178 NORTH CAROLINA A&T STATE UNIVERSITY **7548**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/12/1997 – 09/11/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: F VAINSTEIN, R P WILSON
Tech. Officer: LARC/S E WOODARD, LARC/J N JUANG
CASE Category: 42 – ASTRONAUTICAL ENGR

NGT 2 52201 NORTH CAROLINA A&T STATE UNIVERSITY **7549**
RONALD E MCNAIR GRADUATE RESEARCH FELLOWSHIP PROGR AM
09/14/1995 – 08/14/1998 FY97: $323,500 Total: $970,500
Prin. Invest.: J C KELLY
Tech. Officer: ARC/A J HATCH
CASE Category: 49 – ENGINEERING, OTHER

NGT 5 90027 NORTH CAROLINA A&T STATE UNIVERSITY **7550**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH
02/03/1997 – 08/14/1997 FY97: $87,538 Total: $87,538
Prin. Invest.: L SHARPE
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 45 – ELECTRICAL ENGR

NAG 1 244 NORTH CAROLINA STATE UNIV. – RALEIGH **7551**
NUMERICAL SOLUTIONS OF THE COMPLETE NAVIER – STOKES EQUATIONS
12/04/1981 – 09/30/1997 FY97: $33,530 Total: $849,240
Prin. Invest.: H A HASSAN, E GANTT, R W WALTERS
Tech. Officer: LARC/J E HARRIS, LARC/D H RUDY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 983 NORTH CAROLINA STATE UNIV. – RALEIGH **7552**
MULTIVERSION SOFTWARE RELIABILITY THROUGH FAULT AVOIDANCE AND FAULT–TOLERANCE
03/01/1989 – 06/30/1996 FY97: –$1 Total: $447,670
Prin. Invest.: M A VOUK, D F MCALLISTER
Tech. Officer: LARC/D E ECKHARDT
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1436 NORTH CAROLINA STATE UNIV. – RALEIGH **7553**
COMPUTATIONAL CONTROL OF FLEXIBLE AEROSPACE SYSTEMS
05/12/1992 – 08/01/1996 FY97: $0 Total: $226,624
Prin. Invest.: L SHARPE
Tech. Officer: LARC/L W TAYLOR
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 1 1600 NORTH CAROLINA STATE UNIV. – RALEIGH **7554**
COMPUTATION OF FEEDBACK GAINS AND COMPENSATORS IN A NOISE SUPPRESSION CONTROLSYSTEM
03/25/1994 – 08/31/1997 FY97: $0 Total: $160,758
Prin. Invest.: H T BANKS, R C SMITH
Tech. Officer: LARC/R J SILCOX, LARC/H C LESTER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1663 NORTH CAROLINA STATE UNIV. – RALEIGH **7555**
REDUCTION AND ANALYSIS OF MARS–PATHFINDER HEAT TRA NSFER DATA NLPN 94–1104
12/12/1994 – 04/30/1997 FY97: $9,820 Total: $66,084
Prin. Invest.: J PERKINS
Tech. Officer: LARC/C G MILLER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1733 NORTH CAROLINA STATE UNIV. – RALEIGH **7556**
DURABILITY, PERFORMANCE, AND EMISSIONS OF DIESEL ENGINES USING CARBON FIBER PISTON AND LINER
06/15/1995 – 08/14/1998 FY97: $0 Total: $30,547
Prin. Invest.: E M AFIFY, W L ROBERTS
Tech. Officer: LARC/G B NORTHAM, LARC/K RIVERS
CASE Category: 47 – METAL &MATERIALS ENGR

NAG 1 1752 NORTH CAROLINA STATE UNIV. – RALEIGH **7557**
REMOTE SENSING OF TROPOSPHERIC CARBON MONOXIDE DAT A COMPARISON AND RADIATIVETRANSFER STATION
09/12/1995 – 09/12/1998 FY97: $0 Total: $148,337
Prin. Invest.: S RAMAR
Tech. Officer: LARC/Y CONNORS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1819 NORTH CAROLINA STATE UNIV. – RALEIGH **7558**
PASSIVE PNEUMATIC CONTROL ON IRCRAFT AFTERBODY
03/13/1996 – 03/12/1998 FY97: $36,000 Total: $72,000
Prin. Invest.: D D CHOKANI, S L KRAUSHAAR
Tech. Officer: LARC/L S BANGERT
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1829 NORTH CAROLINA STATE UNIV. – RALEIGH **7559**
ACTIVE CONTROL OF CAVITY NOISE–EXPERIMENT AND COMPUTATION
04/09/1996 – 04/08/1998 FY97: $37,000 Total: $82,126
Prin. Invest.: N D CHOKANI
Tech. Officer: LARC/R W WLEZIEN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1876 NORTH CAROLINA STATE UNIV. – RALEIGH **7560**
A NEW APPROACH FOR DETERMINING ONSET OF TRANSISTION
10/24/1996 – 10/31/1997 FY97: $40,000 Total: $40,000
Prin. Invest.: H A HASSAN
Tech. Officer: LARC/R D JOSLIN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1905 NORTH CAROLINA STATE UNIV. – RALEIGH **7561**
1997 NATIONAL SCIENCE OLYMPIAD TOURNAMENT
02/27/1997 – 08/31/1997 FY97: $24,950 Total: $24,950
Prin. Invest.: P R DAIL
Tech. Officer: LARC/S E MASSENBERG
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 2 684 NORTH CAROLINA STATE UNIV. – RALEIGH **7562**
"HETEROGENEOUS PHOTOCATALYTIC OXIDATION OF ATMOSPH ERIC TRACE CONTAMINANTS"
11/16/1990 – 09/30/1996 FY97: $0 Total: $250,000
Prin. Invest.: D F OLLIS
Tech. Officer: ARC/J E FINN, ARC/W E BERRY
CASE Category: 43 – CHEMICAL ENGR

NAG 2 1115 NORTH CAROLINA STATE UNIV. – RALEIGH **7563**
VIRTURAL PROTOTYPING FOR CARBON NANOTUBES & THEIR COMPOSITIONS
02/14/1997 – 03/31/1998 FY97: $69,887 Total: $69,887
Prin. Invest.: B I YAKOBSON
Tech. Officer: ARC/C LEVIT, ARC/D A BAILEY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 2 1119 NORTH CAROLINA STATE UNIV. – RALEIGH **7564**
COMPUTATIONAL STUDY OF NANOMETER–SCALE DEVICE OPER ATION & ENGINEERING
02/20/1997 – 12/31/1997 FY97: $99,100 Total: $99,100
Prin. Invest.: D W BRENNER, C K HALL
Tech. Officer: ARC/C ' LEVIT, ARC/D A BAILEY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 2254 NORTH CAROLINA STATE UNIV. – RALEIGH **7565**
THE PHYSICAL FOUNDATIONS OF PARTICLE ACCELERATION BY COLLISIONLESS SHOCKS IN SPACE
04/27/1993 – 04/30/1998 FY97: $132,701 Total: $592,989
Prin. Invest.: D C ELLISON
Tech. Officer: GSFC/T J BIRMINGHAM, GSFC/J D BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 2844 NORTH CAROLINA STATE UNIV. – RALEIGH **7566**
X–RAY EMISSION AND DYNAMICS OF SUPERNOVA REMNANTS
12/14/1994 – 12/14/1997 FY97: $125,000 Total: $375,000
Prin. Invest.: S P REYNOLDS
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2972 NORTH CAROLINA STATE UNIV. – RALEIGH **7567**
THE RADIO–BRIGHT GALACTIC SUPERNOVA REMNANT G41.1–0.3(3C 397)
06/13/1995 – 12/14/1997 FY97: $0 Total: $17,865
Prin. Invest.: S REYNOLDS
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3415 NORTH CAROLINA STATE UNIV. – RALEIGH **7568**
THE DETAILED MORPHOLOGY OF G11.2–0.3 (SN 386 AD)
09/14/1996 – 03/14/1998 FY97: $0 Total: $8,719
Prin. Invest.: S REYNOLDS
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 3743 NORTH CAROLINA STATE UNIV. – RALEIGH **7569**
NASA SPECIALIZED CENTER OF RESEARCH AND TRAINING I BIOLOGY
03/19/1997 – 03/14/1998 FY97: $999,789 Total: $999,789
Prin. Invest.: E DAVIES
Tech. Officer: GSFC/L CHAMBERS
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 4802 NORTH CAROLINA STATE UNIV. – RALEIGH **7570**
THE ROLE OF CONVECTION OVER THE GULF OF MEXICO IN STREAM INTERACTIONS RESULTING IN RECENT EXTREME EA
08/09/1997 – 07/31/1998 FY97: $106,507 Total: $106,507
Prin. Invest.: M KAPLAN, NONE
Tech. Officer: GSFC/A NWGRI
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 1331 NORTH CAROLINA STATE UNIV. – RALEIGH **7571**
SPACE ENGINEERING RESEARCH CENTER
07/12/1988 – 07/31/1998 FY97: $0 Total: $11,364,144
Prin. Invest.: F R DEJARNETTE
Tech. Officer: HQ/S M WANDER
CASE Category: 49 – ENGINEERING, OTHER

NAGW 3575 NORTH CAROLINA STATE UNIV. – RALEIGH **7572**
INFLUENCE OF VERTICAL MIXING ON THE SEA WIFS ALGOR ITHMS
05/26/1993 – 07/01/1998 FY97: $0 Total: $453,808
Prin. Invest.: D KAMYKOWSKI
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 33 – OCEANOGRAPHY

NAGW 4869 NORTH CAROLINA STATE UNIV. – RALEIGH **7573**
A LABORATORY PLASMA SOURCE AS AN MHD MODEL FOR AST ROPHYSICAL JETS
12/15/1995 – 09/30/1997 FY97: $0 Total: $60,000
Prin. Invest.: R M MAYO
Tech. Officer: HQ/L TAFF, HQ/D W WEEDMAN
CASE Category: 13 – PHYSICS

NAGW 4984 NORTH CAROLINA STATE UNIV. – RALEIGH **7574**
CALCIUM SIGNALLING AND GRAVITY
02/29/1996 – 12/31/1997 FY97: $0 Total: $999,634
Prin. Invest.: E DAVIS, PH.D.
Tech. Officer: HQ/R WHITE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAS 1 18944 NORTH CAROLINA STATE UNIV. – RALEIGH **7575**
SAGE III SCIENCE INVESTIGATION SUPPORT; P.I. PROFESSOR SAXENA
10/06/1989 – 01/31/2005 FY97: $45,000 Total: $246,637
Prin. Invest.: V SAXENA
Tech. Officer: LARC/G MADDREA
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 1 112 NORTH CAROLINA STATE UNIV. – RALEIGH **7576**
STUDY OF THE TRANSITIONAL FLOW REGIME USING THE MONTE CARLO METHODS
03/10/1987 – 10/31/1997 FY97: $71,289 Total: $1,391,873
Prin. Invest.: H A HASSAN
Tech. Officer: LARC/K SUTTON, LARC/J N MOSS
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 1 162 NORTH CAROLINA STATE UNIV. – RALEIGH **7577**
AN EXPERIMENTAL INVESTIGATION OF SUCTION BOUNDARY LAYER CONTROL ON LEADING EDGE FLAPS
02/28/1992 – 02/20/1996 FY97: –$1,341 Total: $107,863
Prin. Invest.: J N PERKINS*Prin. Invest.:* NONE
Tech. Officer: LARC/P L COE
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 1 169 NORTH CAROLINA STATE UNIV. – RALEIGH **7578**
SEMI–SPAN MODEL TESTING IN THE NATIONAL TRANSONIC FACILITY – A NUMERICAL STUDY
09/22/1992 – 10/31/1996 FY97: –$779 Total: $152,832
Prin. Invest.: N CHOKANI
Tech. Officer: LARC/J A AL–SAADI, LARC/R A WAHLS
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 1 183 NORTH CAROLINA STATE UNIV. – RALEIGH **7579**
AN EXPERIMENTAL STUDY OF HIGH SPEED CONE BOUNDARY LAYER STABILITY AND TRANSITION NLPN 93–514
07/21/1993 – 01/31/1997 FY97: -$513 Total: $92,578
Prin. Invest.: N CHEKANI, J J LACHOWICZ
Tech. Officer: LARC/S P WILKINSON
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 1 188 NORTH CAROLINA STATE UNIV. – RALEIGH **7580**
NUMERICAL MODELING STUDIES OF WAKE VORTEX TRANSPOR T AND EVOLUTION WITHIN THEPLANETARY BOUNDARY LAY
01/11/1994 – 04/06/1998 FY97: $202,001 Total: $680,669
Prin. Invest.: Y L LIN, S P ARYA, M L KAPLAN
Tech. Officer: LARC/F H PROCTOR, LARC/D A HINTON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 1 220 NORTH CAROLINA STATE UNIV. – RALEIGH **7581**
AN OPERATIONAL COMPUTATIONAL TERMINAL AREA PBL PREDICTION SYSTEM
01/23/1996 – 01/22/1998 FY97: $188,000 Total: $312,429
Prin. Invest.: Y L LIN, M L KAPLAN
Tech. Officer: LARC/F H PROCTOR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 1 244 NORTH CAROLINA STATE UNIV. – RALEIGH **7582**
CARBON–CARBON ENGINE VALVE DEVELOPMENT
09/23/1996 – 09/22/1998 FY97: $12,958 Total: $12,958
Prin. Invest.: W L ROBERTS, J W DAVID
Tech. Officer: LARC/G B NORTHAM, LARC/P O RANSONE
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 2 5235 NORTH CAROLINA STATE UNIV. – RALEIGH **7583**
AEROASSIST APPLICATIONS TO HUMAN MARS EXPLORATION
08/14/1997 – 09/30/1997 FY97: $16,864 Total: $16,864
Prin. Invest.: G D WALBERG
Tech. Officer: ARC/P F WERCINSKI
CASE Category: 42 – ASTRONAUTICAL ENGR

NCC 3 576 NORTH CAROLINA STATE UNIV. – RALEIGH **7584**
AEROTHERMO STRUCTURAL ANALYSIS OF LOW COST COMPOSI TE NOZZLE/INLET COMPONENTS
09/19/1997 – 07/22/1999 FY97: $238,883 Total: $238,883
Prin. Invest.: K N SHIVAKUMAR, D SREE
Tech. Officer: LERC/D R REDDY
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 8 95 NORTH CAROLINA STATE UNIV. – RALEIGH **7585**
FUNDAMENTAL ASPECTS OF VAPOR DEPOSITITION AND ETCHING UNDER DIFFUSION CONTROLLED TRANSPORT
05/31/1996 – 05/31/1998 FY97: $247,432 Total: $367,320
Prin. Invest.: K J BACHMANN
Tech. Officer: MSFC/F REEVES, MSFC/J GRISHAM
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 10030 NORTH CAROLINA STATE UNIV. – RALEIGH **7586**
UNIVERSITY SPACE ENGINEERING RESEARCH CENTER GRADUATE RESEARCH ASSISTANTSHIPS
12/09/1994 – 09/30/1997 FY97: $0 Total: $423,473
Prin. Invest.: F R DEJARNETTE
Tech. Officer: HQ/V BITTINGER
CASE Category: 49 – ENGINEERING, OTHER

NGT 30328 NORTH CAROLINA STATE UNIV. – RALEIGH **7587**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/11/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: S KHORRAM
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 40031 NORTH CAROLINA STATE UNIV. – RALEIGH **7588**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
03/22/1991 – 09/30/1997 FY97: $0 Total: $1,141,000
Prin. Invest.: G N WALBERG
Tech. Officer: HQ/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51189 NORTH CAROLINA STATE UNIV. – RALEIGH **7589**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/29/1993 – 02/15/1997 FY97: $0 Total: $66,000
Prin. Invest.: D S MCRAE
Tech. Officer: LARC/L EVANS
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51248 NORTH CAROLINA STATE UNIV. – RALEIGH **7590**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/14/1994 – 06/30/1997 FY97: -$19,567 Total: $46,433
Prin. Invest.: F YUAN
Tech. Officer: LARC/L EVANS
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 70344 NORTH CAROLINA STATE UNIV. – RALEIGH **7591**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
07/14/1993 – 08/14/1997 FY97: $0 Total: $88,000
Prin. Invest.: W ALEXANDER
Tech. Officer: HQ/D K RUSSELL
CASE Category: 45 – ELECTRICAL ENGR

NGT 70402 NORTH CAROLINA STATE UNIV. – RALEIGH **7592**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
09/29/1994 – 07/31/1997 FY97: $0 Total: $132,000
Prin. Invest.: M A VOUK, D AGRAWAI
Tech. Officer: HQ/D K RUSSELL
CASE Category: 45 – ELECTRICAL ENGR

NGT 90126 NORTH CAROLINA STATE UNIV. – RALEIGH **7593**
NGT–90126/NORTH CAROLINA STATE/UNDERGRADUATE STUDE NT RESEARCHERS PROGRAM/UMF
10/29/1992 – 08/14/1997 FY97: $0 Total: $45,032
Prin. Invest.: W E COLEMAN
Tech. Officer: HQ/M JONES
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90225 NORTH CAROLINA STATE UNIV. – RALEIGH **7594**
UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
09/17/1993 – 08/14/1996 FY97: $0 Total: $34,032
Prin. Invest.: W COLEMAN
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90270 NORTH CAROLINA STATE UNIV. – RALEIGH **7595**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
01/13/1995 – 08/14/1996 FY97: $0 Total: $72,000
Prin. Invest.: W COLEMAN
Tech. Officer: HQ/D K RUSSELL
CASE Category: 44 – CIVIL ENGR

NGT 1 52125 NORTH CAROLINA STATE UNIV. – RALEIGH **7596**
GRADUATE STUDENT RESEARCHER PROGRAM (GSRP)
05/15/1996 – 06/30/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: L H LEE, E M AFIFY
Tech. Officer: LARC/G B NORTHAM, LARC/P O RANSONE
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 1 52154 NORTH CAROLINA STATE UNIV. – RALEIGH **7597**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
01/10/1997 – 12/31/1997 FY97: $22,000 Total: $22,000
Prin. Invest.: G ALEXOPOULOS, H A HASSAN
Tech. Officer: LARC/J L THOMAS, LARC/M G MARCARAEG
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 1 52164 NORTH CAROLINA STATE UNIV. – RALEIGH **7598**
GRADUATE STUDENT RESEARCH PROGRAM
08/04/1997 – 08/24/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: O J MYERS
Tech. Officer: LARC/H N ZUMBRUN, LARC/M G FLECK
CASE Category: 46 – MECHANICAL ENGR

NGT 1 52172 NORTH CAROLINA STATE UNIV. – RALEIGH **7599**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
06/30/1997 – 06/30/1998 FY97: $10,000 Total: $10,000
Prin. Invest.: F R DE JARNETTE, K E HARWELL
Tech. Officer: LARC/H H HAMILTON, LARC/E V ZOBY
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 1 52177 NORTH CAROLINA STATE UNIV. – RALEIGH **7600**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
09/03/1997 – 09/02/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: H A HASSAN
Tech. Officer: LARC/S P WILKINSON
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 40 NORTH CAROLINA STATE UNIV. – RALEIGH **7601**
THIS AGREEMENT IS FOR A GRADUATE RESEARCH ASSISTAN DORWIN BLACK, PHD STUDENT IN NUCLEAR ENGINEERING
06/19/1997 – 09/30/1997 FY97: $5,500 Total: $5,500
Prin. Invest.: F DEJARNETTE
Tech. Officer: GSFC/R AVANT
CASE Category: 49 – ENGINEERING, OTHER

NGT 5 40011 NORTH CAROLINA STATE UNIV. – RALEIGH **7602**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
01/30/1997 – 02/28/1998 FY97: $205,000 Total: $205,000
Prin. Invest.: F R DEJARNETTE
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 70001 NORTH CAROLINA STATE UNIV. – RALEIGH **7603**
GRADUATE STUDENT RESEARCH PROGRAM – STUDENTS: FON ELLIS
08/25/1997 – 07/31/1998 FY97: $38,500 Total: $38,500
Prin. Invest.: VOUK
Tech. Officer: GSFC/M STOUSENERGER
CASE Category: 49 – ENGINEERING, OTHER

NGT 5 90051 NORTH CAROLINA STATE UNIV. – RALEIGH **7604**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH
02/12/1997 – 08/14/1997 FY97: $24,000 Total: $24,000
Prin. Invest.: W COLEMAN
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 43 – CHEMICAL ENGR

NAG 5 3474 PEMBROKE STATE UNIVERSITY **7605**
MATHEMATICS, SCIENCE AND TECHNOLOGY AWARDS FOR TEA ENHANCEMENT PROGRAM (MASTAP)
11/18/1996 – 11/30/1997 FY97: $127,270 Total: $127,270
Prin. Invest.: J D'ARRUDA
Tech. Officer: GSFC/M MATEU
CASE Category: 21 – MATHEMATICS

NAGW 4222 PEMBROKE STATE UNIVERSITY **7606**
MTHEMATICS, SCIENCE AND TECHNOLOGY AWARDS FOR TEACHERS AND CURRICULUM ENHANCEMENT PROGRAM
12/22/1994 – 11/30/1997 FY97: $0 Total: $396,823
Prin. Invest.: G L SAMPSON, J D D'ARRUDA
Tech. Officer: HQ/D RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90036 PEMBROKE STATE UNIVERSITY **7607**
UNDERGRADUATE STUDENT AWARD FOR RESEARCH
01/31/1997 – 08/14/1997 FY97: $68,000 Total: $68,000
Prin. Invest.: J CLARK
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 6097 SAINT AUGUSTINE'S COLLEGE **7608**
PACE/MSET AWARD
08/19/1997 – 08/14/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: Y M COSTEN
Tech. Officer: GSFC/M STOUTSENBERGER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5150 SAINT AUGUSTINE'S COLLEGE **7609**
SAINT AUGUSTINE'S COLLEGE SUMMER SCIENCE CAMP
09/26/1996 – 06/30/1997 FY97: $100,000 Total: $100,000
Prin. Invest.: D M COSTON
Tech. Officer: HQ/B WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4617 SHAW UNIVERSITY **7610**
SHAW UNIVERSITY MATHEMATICS, SCIENCE AND TECHNOLOG Y AWARDS FOR TEACHER AND CURRICULUM ENHANCEMENT
07/11/1995 – 06/30/1997 FY97: $200,000 Total: $400,000
Prin. Invest.: J H KEYS
Tech. Officer: HQ/B L WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90059 SHAW UNIVERSITY **7611**
UNDERGRADUATE STUDENT AWARD FOR RESEARCH (USAR)
03/07/1997 – 08/14/1997 FY97: $120,000 Total: $120,000
Prin. Invest.: M CLAYTON
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 2518 UNIVERSITY OF NORTH CAROLINA – ASHVILLE **7612**
STUDIES OF HIGH ENERGY PULSARS WITH EGRET
02/16/1994 – 02/29/1996 FY97: –$4,181 Total: $50,645
Prin. Invest.: J K DAUGHERTY, D J THOMPSON
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2860 UNIVERSITY OF NORTH CAROLINA – CHAPEL HILL **7613**
THE THREE DIMENSIONAL MASS DISTRIBUTIONS IN ELLIPT ICAL GAL-AXIES
12/14/1994 – 12/14/1995 FY97: –$2,097 Total: $40,577
Prin. Invest.: T S STATLER
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3100 UNIVERSITY OF NORTH CAROLINA – CHAPEL HILL **7614**
RADIATIVE PHYSICS OF THE SOFT GAMMA REPEATERS
10/11/1995 – 10/14/1997 FY97: $33,000 Total: $99,000
Prin. Invest.: A C THOMPSON
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3946 UNIVERSITY OF NORTH CAROLINA – CHAPEL HILL **7615**
PHYSICAL & OPTICAL PROPERTIES OF LABORATORY GENERA APPLICA-TIONS TO STRATOSPHERIC CHEMISTRY
02/21/1997 – 03/31/1998 FY97: $94,966 Total: $94,966
Prin. Invest.: R E MILLER
Tech. Officer: GSFC/M J KURYLO
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 6013 UNIVERSITY OF NORTH CAROLINA – CHAPEL HILL **7616**
SPECTROSCOPIC CHARACTERIZATION OF CRYOGENIC AEROSO ETARY ATMOSPHERES
09/11/1997 – 09/30/1998 FY97: $20,230 Total: $20,230
Prin. Invest.: D E MILLER
Tech. Officer: GSFC/S HOWARD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 6278 UNIVERSITY OF NORTH CAROLINA – CHAPEL HILL **7617**
GREENHOUSE GAS (N20, CH4) EXCHANGE AND N CYCLING D FERTILIZED (FACE) TEMPERATE FOREST
09/12/1997 – 02/28/1999 FY97: $131,742 Total: $131,742
Prin. Invest.: S C WHALEN
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 8 1148 UNIVERSITY OF NORTH CAROLINA – CHAPEL HILL **7618**
EVALUATION OF CRYSTAL GROWTH
08/03/1995 – 08/02/1998 FY97: $179,000 Total: $498,909
Prin. Invest.: C W CANTIN
Tech. Officer: MSFC/D NOEUEN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 1576 UNIVERSITY OF NORTH CAROLINA – CHAPEL HILL **7619**
INFRARED SPECTROSCOPY OF NEUTRAL AND IONIC WATER COMPLEXES
12/21/1988 – 09/04/1997 FY97: $0 Total: $427,960
Prin. Invest.: R E MILLER
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAGW 3681 UNIVERSITY OF NORTH CAROLINA – CHAPEL HILL **7620**
CONTROLS ON FLUXES AND ISOTOPIC COMPOSITION OF BIO GENIC GASES FROM WETLANDS, RIVERS AND FLOODED FOR
07/23/1993 – 04/30/1997 FY97: $0 Total: $379,661
Prin. Invest.: C S MARTENS, W USSLER III
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3881 UNIVERSITY OF NORTH CAROLINA – CHAPEL HILL **7621**
NAGW-3881/B UNIV NORTH CAROLINA "LAB. STUDIES OF NITRIC ACID HYDRATE AEROSOLS: FORMATION & CHAR."
03/04/1994 – 03/31/1997 FY97: $0 Total: $291,000
Prin. Invest.: R E MILLER, NONE
Tech. Officer: HQ/M J KURYLO, HQ/A C JANETOS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3946 UNIVERSITY OF NORTH CAROLINA – CHAPEL HILL **7622**
BIOCHEMICAL CHANGES OF BONE IN A MODEL OF WEIGHT LESSNESS
04/20/1994 – 09/30/1997 FY97: $0 Total: $402,000
Prin. Invest.: M YAMAUCHI
Tech. Officer: HQ/F M SULZMAN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 5158 UNIVERSITY OF NORTH CAROLINA – CHAPEL HILL **7623**
IMPROVED AREA ESTIMATES FOR LAND COVER & LAND COVE R CHANGE FROM LOW SPATIAL RESOLUTION REMOTE SENSI
10/03/1996 – 09/30/1997 FY97: $127,922 Total: $127,922
Prin. Invest.: A MOODY
Tech. Officer: HQ/G ASRAR, HQ/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG10 144 UNIVERSITY OF NORTH CAROLINA – CHAPEL HILL **7624**
PLANT RESEARCH STATUS AND PROSPECTIVE
08/29/1994 – 11/11/1997 FY97: $28,074 Total: $609,212
Prin. Invest.: T SCOTT
Tech. Officer: KSC/W M KNOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAS 3 27767 UNIVERSITY OF NORTH CAROLINA–GREENSBORO **7625**
NRA 95–LERC–1
10/13/1995 – 12/31/1996 FY97: $0 Total: $50,000
Prin. Invest.: J SANKAR
Tech. Officer: LERC/R BHATT
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 8 1314 UNIVERSITY OF NORTH CAROLINA, CHARLOTTE **7626**
RESEARCH JOVE
01/22/1997 – 08/31/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: R D FORSYTHE, P WANG, S E MARSHALL
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 3968 WAKE FOREST UNIVERSITY **7627**
DIETARY OXALATE AND STONE RISK
03/11/1997 – 02/28/1998 FY97: $82,808 Total: $82,808
Prin. Invest.: R P HOLMES
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4052 WAKE FOREST UNIVERSITY **7628**
THE ROLE OF THE ACTIN CYTOSKELETON IN AUXIN TRANSPORT AND GRAVITROPIMS
06/30/1994 – 09/30/1997 FY97: $0 Total: $235,087
Prin. Invest.: G MUDAY
Tech. Officer: HQ/T W HALSTEAD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 3 2011 WINSTON–SALEM STATE UNIVERSITY **7629**
PARALLEL OBJECT–ORIENTED PROGRAMMING IN NETWORK EN VIRONMENT
02/21/1997 – 02/23/2000 FY97: $46,572 Total: $46,572
Prin. Invest.: A RADENSKI
Tech. Officer: LERC/G FOLLEN
CASE Category: 22 – COMPUTER SCIENCE

NAG 8 1099 WINSTON–SALEM STATE UNIVERSITY **7630**
JOVE
10/18/1994 – 05/31/1997 FY97: $0 Total: $87,000
Prin. Invest.: F LEE, E J JONES
Tech. Officer: MSFC/F SIX
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NGT 90050 WINSTON–SALEM STATE UNIVERSITY **7631**
UNDERGRADUATE STUDENT RESEARCHERS PRG
08/22/1991 – 08/31/1996 FY97: $0 Total: $87,693
Prin. Invest.: W ATKINSON
Tech. Officer: HQ/D RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90010 WINSTON–SALEM STATE UNIVERSITY **7632**
UNDERGRADUATE SCHOLAR AWARDS FOR RESEARCH (USAR)
12/19/1996 – 08/31/1997 FY97: $48,000 Total: $48,000
Prin. Invest.: W B ATKINSON
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NORTH DAKOTA

NAG 3 1603 NORTH DAKOTA STATE UNIVERSITY **7633**
NOISE AND DYNAMICAL PATTERN SELECTION IN SOLIDIFIC ATION
10/14/1994 – 10/13/1997 FY97: $0 Total: $77,582
Prin. Invest.: D A KURTZE
Tech. Officer: LERC/A CHAIT, LERC/V PINES
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 8 1007 NORTH DAKOTA STATE UNIVERSITY **7634**
JOVE
11/19/1993 – 09/30/1998 FY97: $19,767 Total: $132,767
Prin. Invest.: P HAMMOND, D KURTZE, A UNGAR
Tech. Officer: MSFC/F SIX
CASE Category: 47 – METAL & MATERIALS ENGR

NAGW 4629 NORTH DAKOTA STATE UNIVERSITY **7635**
EPSCOR RELATED WORK IN SPACE MATERIALS
08/02/1995 – 11/30/1996 FY97: $0 Total: $75,000
Prin. Invest.: P BOUDJOUK
Tech. Officer: HQ/A S MCGEE, HQ/E T SCHWARTZ
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 2 5157 NORTH DAKOTA STATE UNIVERSITY **7636**
EXTRAVASCULAR AORTIC PRESSURE AND FLOW INSTRUMENT
09/11/1995 – 09/14/1996 FY97: –$317 Total: $39,613
Prin. Invest.: D EWERT
Tech. Officer: ARC/J W HINES
CASE Category: 45 – ELECTRICAL ENGR

NCC 2 5209 NORTH DAKOTA STATE UNIVERSITY **7637**
REFINEMENT OF A RAT AORTIC BLOOD FLOWMETER
04/07/1997 – 01/31/1998 FY97: $29,917 Total: $29,917
Prin. Invest.: D EWERT
Tech. Officer: ARC/J HINES
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NGT 1 52159 NORTH DAKOTA STATE UNIVERSITY **7638**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
06/27/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: M SOUCEK, C R WOLD
Tech. Officer: LARC/R PATER
CASE Category: 11 – ASTRONOMY

NAG 5 6087 TURTLE MOUNTAIN COMMUNITY COLLEGE **7639**
GRAPHING CALCULATOR MINI COURSE
08/11/1997 – 03/31/1998 FY97: $30,000 Total: $30,000
Prin. Invest.: S KARNAWAT
Tech. Officer: GSFC/P SAKIMOTO
CASE Category: 21 – MATHEMATICS

NAG 5 6088 TURTLE MOUNTAIN COMMUNITY COLLEGE **7640**
RECRUITMENT AND RETENTION OF INDIANS IN SCIENCE AN
08/11/1997 – 07/14/1998 FY97: $22,105 Total: $22,105
Prin. Invest.: S KARNAWAT
Tech. Officer: GSFC/P SAKIMOTO
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 3620 TURTLE MOUNTAIN COMMUNITY COLLEGE **7641**
RECRUITMENT AND RETENTION OF INDIANS IN SCIENCE AN D ENGINEERING
05/28/1993 – 05/31/1996 FY97: $0 Total: $81,000
Prin. Invest.: S KARNAWAT
Tech. Officer: HQ/B WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4953 TURTLE MOUNTAIN COMMUNITY COLLEGE **7642**
GRAPHING CALCULATOR MINI COURSE
02/29/1996 – 12/31/1996 FY97: $0 Total: $129,250
Prin. Invest.: S KARNAWAT
Tech. Officer: HQ/M A STOUTSENBERGER
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 1 1706 UNIVERSITY OF NORTH DAKOTA **7643**
ANALYSIS OF CIRRUS CLOUD MICROPHYSICAL DATE AND ANVIL CIRRUS OBSERVATIONS
04/17/1995 – 12/31/1997 FY97: $0 Total: $82,000
Prin. Invest.: M R POELLOT
Tech. Officer: LARC/D S MCDOUGAL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 3 1829 UNIVERSITY OF NORTH DAKOTA **7644**
AUTOMATED MESHING ANALYSIS OF SPRIAL BEVEL GEARS
04/02/1996 – 04/01/1999 FY97: $30,372 Total: $62,844
Prin. Invest.: G D BIBEL
Tech. Officer: LERC/R F HANDSCHUH, LERC/J J COY
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1911 UNIVERSITY OF NORTH DAKOTA **7645**
AMERICAN INDIANS INTO COMPUTER SCIENCE & ENGINEERI NG PROGRAM (AICSE)
07/08/1996 – 12/31/1997 FY97: $34,124 Total: $42,106
Prin. Invest.: M S ALI, A ALLERY
Tech. Officer: LERC/D R PLUMER, LERC/S A MERRITT
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2696 UNIVERSITY OF NORTH DAKOTA **7646**
BRINGING VOLCANO REMOTE SENSING DATA TO CLASSROOMS NATIONAL PARKS AND MONUMENTS
08/17/1994 – 08/31/1997 FY97: $278,496 Total: $855,487
Prin. Invest.: C A WOOD
Tech. Officer: GSFC/F HASLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2699 UNIVERSITY OF NORTH DAKOTA **7647**
ANALYSIS OF IN SITU CONTRAIL MEASUREMENTS FROM FIRE CIRRUS IFO–II
08/24/1994 – 10/31/1997 FY97: $0 Total: $54,714
Prin. Invest.: M POELLOT
Tech. Officer: GSFC/R W STEWART
CASE Category: 11 – ASTRONOMY

NAG 5 3488 UNIVERSITY OF NORTH DAKOTA **7648**
ARE THE UNIDENTIFIED EXTENDED SOURCES WITH NO GALA A1367 TYPE CLUSTER FIELDS MERGER REMNANTS?
10/31/1996 – 10/31/1997 FY97: $36,571 Total: $36,571
Prin. Invest.: M J HENRIKSEN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3616 UNIVERSITY OF NORTH DAKOTA **7649**
A PUBLIC ACCESS RESOURCE CENTER (PARC) EMPOWERING TO USE EOSDI –IMPLEMENTATION PHASE
11/22/1996 – 11/14/1997 FY97: $500,000 Total: $500,000
Prin. Invest.: G A SEIELSTAD
Tech. Officer: GSFC/A J TUYAHOV
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 9 945 UNIVERSITY OF NORTH DAKOTA **7650**
ORAL HISTORY RESEARCH PROJECT
06/04/1997 – 09/30/1997 FY97: $9,925 Total: $9,925
Prin. Invest.: G SEIELSTAD
Tech. Officer: JSC/D L ROSS
CASE Category: 73 – HISTORY

NAGW 4524 UNIVERSITY OF NORTH DAKOTA **7651**
WHAT IS THE VALUE OF SPACE EXPLORATION? A PRAIRIE SYMPOSIUM
05/26/1995 – 04/30/1996 FY97: $0 Total: $41,028
Prin. Invest.: J I GABRYNOWICZ
Tech. Officer: HQ/S BRODY
CASE Category: 41 – AERONAUTICAL ENGNR

NAGW 4810 UNIVERSITY OF NORTH DAKOTA **7652**
A PUBLIC ACCESS RESOURCE CENTER (PARC) EMPOWERING THE GENERAL PUBLIC TO USE EOSDIS
09/28/1995 – 02/28/1997 FY97: $0 Total: $310,257
Prin. Invest.: G SEIELSTAD
Tech. Officer: HQ/A TUYAHOV
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCA 1 150 UNIVERSITY OF NORTH DAKOTA **7653**
AGATE – GENERAL AVIATION AGATE
11/04/1996 – 12/31/1996 FY97: $30,000 Total: $30,000
Prin. Invest.: R MERCIL
Tech. Officer: LARC/D DURHAM
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 5 193 UNIVERSITY OF NORTH DAKOTA **7654**
A MULTI–USE AIRBORNE RESEARCH FACILITY
05/15/1997 – 04/30/1998 FY97: $120,055 Total: $120,055
Prin. Invest.: J STITH
Tech. Officer: GSFC/J HUNING
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 40043 UNIVERSITY OF NORTH DAKOTA **7655**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
05/24/1991 – 09/30/1997 FY97: $0 Total: $1,004,000
Prin. Invest.: C A WOOD
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40034 UNIVERSITY OF NORTH DAKOTA **7656**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
02/13/1997 – 02/28/1998 FY97: $170,000 Total: $170,000
Prin. Invest.: C A WOOD
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

OHIO

NCC 3 300 BALDWIN – WALLACE COLLEGE **7657**
STUDY OF THE PREPARATION & CHEMISTRY OF NOVEL OXID E COATINGS
03/16/1993 – 09/21/1996 FY97: $0 Total: $63,957
Prin. Invest.: J W MCCARGAR
Tech. Officer: LERC/E G WINTUCKY
CASE Category: 12 – CHEMISTRY

NCC 3 425 BALDWIN – WALLACE COLLEGE **7658**
COMBUSTION, FLUIDS, AND MATERIALS EXPERIMENTS IN A REDUCED GRAVITY ENVIRONMENT
07/24/1995 – 07/23/1998 FY97: $76,110 Total: $152,220
Prin. Invest.: R L WALLIS
Tech. Officer: LERC/S M NUSSBAUM
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 886 CASE WESTERN RESERVE UNIVERSITY **7659**
GRAVITY-DEPENDENT TRANSPORT IN INDUSTRIAL PROCESSES
04/12/1988 – 08/31/1996 FY97: -$80 Total: $1,379,638
Prin. Invest.: S OSTRACH, Y KAMOTANI
Tech. Officer: LERC/A J RATAJCZAK
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1046 CASE WESTERN RESERVE UNIVERSITY **7660**
MODELING OF SOLID FUEL COMBUSTION IN VERY LOW-SPEE D OXYGEN STREAMS
05/18/1989 – 04/30/1998 FY97: $193,990 Total: $970,261
Prin. Invest.: J S T'IEN
Tech. Officer: LERC/J A SALZMAN
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1179 CASE WESTERN RESERVE UNIVERSITY **7661**
STABILITY OF FLOW THROUGH AXIAL COMPRESSION SYSTEM S
05/24/1990 – 11/08/1995 FY97: -$450 Total: $340,283
Prin. Invest.: F E MCCAUGHAN
Tech. Officer: LERC/F A NEWMAN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1201 CASE WESTERN RESERVE UNIVERSITY **7662**
TIME DEPENDENT NUMERICAL SIMULATIONS OF SOLIDIFICA TION PROCESSES
08/21/1990 – 04/21/1997 FY97: $0 Total: $393,078
Prin. Invest.: P L TAYLOR
Tech. Officer: LERC/A CHAIT, LERC/T K GLASGOW
CASE Category: 13 – PHYSICS

NAG 3 1412 CASE WESTERN RESERVE UNIVERSITY **7663**
DIRECTIONAL SOLIDIFICATION IN 3HE-4HE ALLOYS
12/30/1992 – 09/30/1996 FY97: $0 Total: $225,000
Prin. Invest.: A J DAHM
Tech. Officer: LERC/A CHAIT, LERC/V PINES
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1568 CASE WESTERN RESERVE UNIVERSITY **7664**
SURFACE TENSION DRIVEN CONVECTION EXPERIMENTS – 2
02/14/1994 – 10/14/1997 FY97: $313,062 Total: $1,403,175
Prin. Invest.: S OSTRACH, Y KAMOTANI
Tech. Officer: LERC/A D PLINE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1702 CASE WESTERN RESERVE UNIVERSITY **7665**
STRUCTURAL AND ELCTRICL CHARACTERIZATION OF LATTIC E DEFECTS IN SIC
02/10/1995 – 11/25/1997 FY97: $75,000 Total: $225,006
Prin. Invest.: P PIROUZ
Tech. Officer: LERC/J A POWELL
CASE Category: 13 – PHYSICS

NAG 3 1741 CASE WESTERN RESERVE UNIVERSITY **7666**
DEVELOPMENT OF HIGH TEMPERATURE NOX SENSOR USING TIN OXIDE BASED AND MOS BASED DEVICES
05/01/1995 – 11/02/1996 FY97: $0 Total: $139,990
Prin. Invest.: C C LIU
Tech. Officer: LERC/G W HUNTER
CASE Category: 43 – CHEMICAL ENGR

NAG 3 1798 CASE WESTERN RESERVE UNIVERSITY **7667**
INTERACTION OF MOLECULES & PARTICLES BY ANALYSIS OF COMPUTER TRAJECTORIES
12/14/1995 – 06/30/1997 FY97: $0 Total: $78,799
Prin. Invest.: I GREBER
Tech. Officer: LERC/D FERAUSON
CASE Category: 13 – PHYSICS

NAG 3 1806 CASE WESTERN RESERVE UNIVERSITY **7668**
MINORITY ENGINEERS INDUSTRIAL OPPORTUNITY PROGRAM
02/09/1996 – 02/08/1997 FY97: $0 Total: $5,000
Prin. Invest.: M E BOULDING
Tech. Officer: LERC/S A MERRITT
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1868 CASE WESTERN RESERVE UNIVERSITY **7669**
INDUSTRIAL PROCESSES INFLUENCED BY GRAVITY
05/09/1996 – 05/08/2000 FY97: $67,000 Total: $163,610
Prin. Invest.: S OSTRACH, Y KAMOTANI
Tech. Officer: LERC/A D PLINE, LERC/N R HALL
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1913 CASE WESTERN RESERVE UNIVERSITY **7670**
BUBBLE GENERATION IN A FLOWING LIQUID MEDIUM & RES ULTING TWO-PHASE FLOW IN MICROGRAVITY
07/10/1996 – 06/30/2000 FY97: $48,000 Total: $143,983
Prin. Invest.: Y KAMOTANI, J OSTRACH, J KADAMBI
Tech. Officer: LERC/D F CHAO
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1966 CASE WESTERN RESERVE UNIVERSITY **7671**
DEVELOPMENT OF A SOLID-STATE AMPERMETRIC HIGH TEMP ERATURE OXYGEN SENSOR
10/02/1996 – 03/31/1997 FY97: $27,272 Total: $27,272
Prin. Invest.: C C LIU
Tech. Officer: LERC/G W HUNTER
CASE Category: 43 – CHEMICAL ENGR

NAG 3 2053 CASE WESTERN RESERVE UNIVERSITY **7672**
EXPERIMENTS AND COMPUTER SIMULATIONS FOR BEARING D YNAMIC STABILITY LIMITS
05/28/1997 – 01/11/1998 FY97: $25,000 Total: $25,000
Prin. Invest.: M L ADAMS, JR.
Tech. Officer: LERC/D E BREWE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 8 1268 CASE WESTERN RESERVE UNIVERSITY **7673**
DISLOCATION FORMATION DURING GROWTH OF SEMI- CONDUCTOR CRYSTALS
05/03/1996 – 05/31/1998 FY97: $30,000 Total: $90,000
Prin. Invest.: M KAFOREY, NONE
Tech. Officer: MSFC/C R TALLEY
CASE Category: 13 – PHYSICS

NAG 8 1270 CASE WESTERN RESERVE UNIVERSITY **7674**
DETERMINATION OF THE SURFACE ENERGY OF LIQUID CRYSTALS
05/03/1996 – 05/31/1998 FY97: $35,000 Total: $105,001
Prin. Invest.: C ROSENBLATT, P L TAYLOR
Tech. Officer: MSFC/C R TALLEY
CASE Category: 13 – PHYSICS

NAGW 4398 CASE WESTERN RESERVE UNIVERSITY **7675**
MICROGRAVITY: SLEEP DEPRIVATION AND AUTONOMIC CON TROL
04/24/1995 – 12/31/1995 FY97: –$32,381 Total: $24,208
Prin. Invest.: M L SMITH
Tech. Officer: HQ/F SULZMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAS 3 25973 CASE WESTERN RESERVE UNIVERSITY **7676**
THERMOCOAPILLARY CONVECTION EXPERIMENT IN MICROGRA VITY
04/15/1991 – 06/26/1996 FY97: $0 Total: $1,575,332
Prin. Invest.: S OSTRACH, Y KAMOTANI
Tech. Officer: LERC/A D PLINE
CASE Category: 49 – ENGINEERING, OTHER

NAS 8 39722 CASE WESTERN RESERVE UNIVERSITY **7677**
STUDY OF DOPART SEGREGATION
04/30/1993 – 12/31/1997 FY97: $192,005 Total: $1,022,005
Prin. Invest.: D MATTHIESEN
Tech. Officer: MSFC/F REEVES
CASE Category: 99 – MULTI INTERDISCPL. OTHER

NCC 3 94 CASE WESTERN RESERVE UNIVERSITY **7678**
INCR THERMAL FATIQUE RESIST OF COPER BASED ALLOYDS
07/24/1987 – 09/30/1995 FY97: –$26,940 Total: $565,497
Prin. Invest.: G M MICHAL, D L ELLIS
Tech. Officer: LERC/H R GRAY
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 140 CASE WESTERN RESERVE UNIVERSITY **7679**
THERMOCAPILLARY & ELECTROCAPILLARY EFFECTS IN REDU CED GRAVITY
05/15/1989 – 07/31/1997 FY97: $25,966 Total: $2,473,057
Prin. Invest.: Y KAMOTANI
Tech. Officer: LERC/R W VERNON
CASE Category: 46 – MECHANICAL ENGR

NCC 3 166 CASE WESTERN RESERVE UNIVERSITY **7680**
EVALUATION OF LASER–LIGHT SCATTERING HARDWARE FOR MICRO–GRAVITY EXPERIMENTS
03/06/1990 – 07/09/1996 FY97: –$237 Total: $516,142
Prin. Invest.: J A MANN
Tech. Officer: LERC/T K GLASGOW
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 206 CASE WESTERN RESERVE UNIVERSITY **7681**
IGNITION & FLAME SPREAD OF LIQUID FUEL POOLS
02/14/1991 – 03/31/1997 FY97: $0 Total: $659,202
Prin. Invest.: J S T'IEN
Tech. Officer: LERC/H D ROSS
CASE Category: 46 – MECHANICAL ENGR

NCC 3 263 CASE WESTERN RESERVE UNIVERSITY **7682**
FLOW VISUALIZATION OF BLADE ROW INTERACTION
05/08/1992 – 07/13/1998 FY97: $10,000 Total: $157,572
Prin. Invest.: J R KADAMBF
Tech. Officer: LERC/J J ADAMCZYK, LERC/R J BOYLE
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 3 266 CASE WESTERN RESERVE UNIVERSITY **7683**
SURFACE LIGNT SCATTERING INSTRUMENT
05/19/1992 – 07/21/1996 FY97: $0 Total: $246,011
Prin. Invest.: J A MANN
Tech. Officer: LERC/T K GLASGOW, LERC/W V MEYER
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 275 CASE WESTERN RESERVE UNIVERSITY **7684**
NUMERICAL STUDIES OF PHASE TRANSITION PHENOMENA IN MICROGRAVITY
07/02/1992 – 08/16/1997 FY97: $0 Total: $354,641
Prin. Invest.: V K PINES
Tech. Officer: LERC/A CHAIT
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 293 CASE WESTERN RESERVE UNIVERSITY **7685**
DIFFUSION PROCESSES IN MOLTEN SEMICONDUCTORS
01/13/1993 – 03/24/1998 FY97: $218,351 Total: $758,612
Prin. Invest.: D MATTHIESEN
Tech. Officer: LERC/T K GLASGOW, LERC/C R KROLIKOWSKI
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 294 CASE WESTERN RESERVE UNIVERSITY **7686**
ELECTRICAL CHARACTERIZATION OF SIC ELECTRIC DEVICE S
01/25/1993 – 12/31/1996 FY97: $0 Total: $97,716
Prin. Invest.: M TABIB–AZAR
Tech. Officer: LERC/P G NEUDECK
CASE Category: 45 – ELECTRICAL ENGR

NCC 3 295 CASE WESTERN RESERVE UNIVERSITY **7687**
INTERMETALLIC MATRIX COMPOSITES
02/10/1993 – 10/15/1996 FY97: –$1,866 Total: $109,496
Prin. Invest.: R M AIKEN, J J LEWANDOSKI
Tech. Officer: LERC/M V NATHAL
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 331 CASE WESTERN RESERVE UNIVERSITY **7688**
FATIGUE CRACK GROWTH OF ADVANCED MATERIALS
11/29/1993 – 11/30/1997 FY97: $130,726 Total: $448,232
Prin. Invest.: R L MULLEN, L T GHOSN
Tech. Officer: LERC/J I TELESMAN
CASE Category: 46 – MECHANICAL ENGR

NCC 3 340 CASE WESTERN RESERVE UNIVERSITY **7689**
SOFTWARE ENGINEERING FOR STEREO IMAGING VELCIMETRY
03/04/1994 – 12/11/1996 FY97: $0 Total: $63,703
Prin. Invest.: G W ERNST
Tech. Officer: LERC/M D BETHEA
CASE Category: 22 – COMPUTER SCIENCE

NCC 3 350 CASE WESTERN RESERVE UNIVERSITY **7690**
CANDLE FLAMES IN MICROGRAVITY
06/03/1994 – 07/31/1998 FY97: $118,928 Total: $308,150
Prin. Invest.: J S TIEN
Tech. Officer: LERC/H D ROSS
CASE Category: 46 – MECHANICAL ENGR

NCC 3 371 CASE WESTERN RESERVE UNIVERSITY **7691**
PROJECT MANAGEMENT: A COMPETENCY STUDY
12/12/1994 – 12/11/1995 FY97: $0 Total: $42,000
Prin. Invest.: D KOLB
Tech. Officer: LERC/R CLAPPER
CASE Category: 79 – SOCIAL SCIENCE, OTHER

NCC 3 372 CASE WESTERN RESERVE UNIVERSITY **7692**
A STUDY OF THE MECHANICAL PROPERITIES OF DIRECTION ALLY SOLIDI-FIED & CHARACTERIZATION O HIGH TEMP MA
11/15/1994 – 10/31/1999 FY97: $309,570 Total: $659,492
Prin. Invest.: A SAYIR
Tech. Officer: LERC/J A DICARLO, LERC/S R LEVINE
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 377 CASE WESTERN RESERVE UNIVERSITY **7693**
IMPROVED PROCESSING OF HIGH TEMPERATURE COMPOSITE SYSTEMS
12/08/1994 – 06/30/1997 FY97: $0 Total: $280,260
Prin. Invest.: C N SUKENIK
Tech. Officer: LERC/M A MEADOR
CASE Category: 12 – CHEMISTRY

NCC 3 378 CASE WESTERN RESERVE UNIVERSITY **7694**
THE DEVELOPMENT OF SILICON CARBIDE BASED GAS SENSO RS FOR AUTOMOBILE EMISSIONS
12/07/1994 – 01/16/1996 FY97: $0 Total: $200,000
Prin. Invest.: C C LIU
Tech. Officer: LERC/G W HUNTER
CASE Category: 43 – CHEMICAL ENGR

NCC 3 384 CASE WESTERN RESERVE UNIVERSITY **7695**
EVALUATION OF THE LONG TERM DURABILITY OF MATERIAL S FOR ADVANCED TURBINES ENGINES
03/24/1995 – 11/30/1997 FY97: $101,188 Total: $275,828
Prin. Invest.: G M MICHAL
Tech. Officer: LERC/R V MINER, LERC/M V NATHAL
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 389 CASE WESTERN RESERVE UNIVERSITY **7696**
PROCESSING, STRUCTURES AND PROPERTIES OF ADVANCED INTERMETALLICS AND METAL MATRIX COMPOSITES
01/10/1995 – 11/30/1997 FY97: $187,885 Total: $503,240
Prin. Invest.: G M MICHAL, I E LOCCI
Tech. Officer: LERC/M V NATHAL
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 404 CASE WESTERN RESERVE UNIVERSITY **7697**
CERAMIC PROCESSING
03/13/1995 – 10/31/1997 FY97: $238,500 Total: $699,262
Prin. Invest.: J CAWLEY
Tech. Officer: LERC/S LEVINE
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 409 CASE WESTERN RESERVE UNIVERSITY **7698**
THE DEVELOPMENT OF A NOVEL CLASS OF RETAINERLESS/U NDIRECTION–FIBER COMPOSITE MONENTUM WHEELS
04/01/1995 – 11/06/1997 FY97: $66,987 Total: $191,788
Prin. Invest.: J M PRAHL
Tech. Officer: LERC/W R JONES, LERC/M V ZELLER
CASE Category: 46 – MECHANICAL ENGR

NCC 3 431 CASE WESTERN RESERVE UNIVERSITY **7699**
POLING OF MICROWAVE ELECTO–OPTIC DEVICES
09/22/1995 – 09/21/1996 FY97: $0 Total: $9,753
Prin. Invest.: D D SINGER
Tech. Officer: LERC/R R KUNATH
CASE Category: 45 – ELECTRICAL ENGR

NCC 3 460 CASE WESTERN RESERVE UNIVERSITY **7700**
STUDIES AND APPLICATIONS OF COLLOIDAL PHENOMENA USING LASER LIGHT SCATTERING IN REDUCED GRAVITY
03/25/1996 – 03/24/2001 FY97: $70,000 Total: $201,951
Prin. Invest.: J A MANN JR., R R ANSARI
Tech. Officer: LERC/B S SINGH
CASE Category: 49 – ENGINEERING, OTHER

NCC 3 463 CASE WESTERN RESERVE UNIVERSITY **7701**
MONOLITHIC CU–CR–NB ALLOYS FOR ELEVATED TEMPERATUR E HIGH HEAT FLUX APPLICATIONS
04/10/1996 – 11/30/1997 FY97: $68,042 Total: $128,042
Prin. Invest.: G M MICHAL, D L ELLIS
Tech. Officer: LERC/R V MINER, LERC/M V NATHAL
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 464 CASE WESTERN RESERVE UNIVERSITY **7702**
THE ROLE OF FIBER–ARCHITECTURE ON THE MECHANICAL P ROPERTIES OF TITANIUM MATRIX COMPOSITES
04/11/1996 – 03/24/1998 FY97: $58,100 Total: $85,575
Prin. Invest.: R M AIKEN, JR.
Tech. Officer: LERC/S M ARNOLD
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 3 485 CASE WESTERN RESERVE UNIVERSITY **7703**
HYDROGEN GAS SENSOR FOR BOTH SPACE AND COMMERICAL APPLICATIONS
07/10/1996 – 01/01/1997 FY97: $0 Total: $69,999
Prin. Invest.: C LIU
Tech. Officer: LERC/G W HUNTER
CASE Category: 46 – MECHANICAL ENGR

NCC 3 498 CASE WESTERN RESERVE UNIVERSITY **7704**
MODELING OF ICE FORMATION ON SWEPT WING LEADING ED GES
09/04/1996 – 06/03/1997 FY97: $8,931 Total: $25,000
Prin. Invest.: E RESHOTKO
Tech. Officer: LERC/M G POTHPCZUK
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 3 500 CASE WESTERN RESERVE UNIVERSITY **7705**
MICROGRAVITY COMBUSTION SCIENCE RESEARCH & FLIGHT EXPERIMENT OPPORTUNITIES
09/04/1996 – 05/31/2000 FY97: $57,942 Total: $94,970
Prin. Invest.: F J MILLER, H D ROSS, J S TIEN
Tech. Officer: LERC/J SALZMAN
CASE Category: 46 – MECHANICAL ENGR

NCC 3 503 CASE WESTERN RESERVE UNIVERSITY **7706**
MAPPING OF CARRIER DIFFUSION LENGTHS, MICROPIPES & OTHER DEFECTS IN SIC & GAN USING ELECTRO BEAM IND
09/10/1996 – 04/15/1997 FY97: $270 Total: $3,740
Prin. Invest.: M TABIB–AZAR
Tech. Officer: LERC/S G BAILEY
CASE Category: 45 – ELECTRICAL ENGR

NCC 3 510 CASE WESTERN RESERVE UNIVERSITY **7707**
ELECTRICAL CHARACTERIZATION OF MICROPIPES & OTHER DEFECTS IN SIC AND GAN USING ELECTRON BEAM INDUCED
10/30/1996 – 10/31/1997 FY97: $23,205 Total: $23,205
Prin. Invest.: M TABIB–AZAR
Tech. Officer: LERC/S G BAILEY
CASE Category: 13 – PHYSICS

NCC 3 518 CASE WESTERN RESERVE UNIVERSITY **7708**
A STUDY OF THE TIME–DEPENDENT RESPONSE OF CERAMIC MATERIALS
01/06/1997 – 10/31/1997 FY97: $84,979 Total: $84,979
Prin. Invest.: D A GASPARINI, V PANOSTALTSIS
Tech. Officer: LERC/N N NEMTH
CASE Category: 46 – MECHANICAL ENGR

NCC 3 525 CASE WESTERN RESERVE UNIVERSITY **7709**
THE EFFECTS OF GROWTH CONDITIONS ON THE FRETTING B EHAVIOR OF DIAMONDLIKE CARBON FILMS
01/06/1997 – 10/31/1997 FY97: $29,999 Total: $29,999
Prin. Invest.: P W MORRISON, JR.
Tech. Officer: LERC/K MIYOAHI, LERC/M V ZELLER
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 533 CASE WESTERN RESERVE UNIVERSITY **7710**
SURFACE LIGHT SCATTERING INSTRUMENT
01/17/1997 – 07/09/1997 FY97: $35,000 Total: $35,000
Prin. Invest.: J MANN, JR., D HUMPHREY, N C GARDNER
Tech. Officer: LERC/T K GLASGOW
CASE Category: 43 – CHEMICAL ENGR

NCC 3 554 CASE WESTERN RESERVE UNIVERSITY **7711**
TIME DEPENDENT NUMERICAL SIMULATIONS OF SOLIDIFICA TION PROCESSES
04/21/1997 – 02/24/1998 FY97: $83,906 Total: $83,906
Prin. Invest.: P L TAYLOR, G Y ONR
Tech. Officer: LERC/A CHAIT
CASE Category: 13 – PHYSICS

NCC 3 556 CASE WESTERN RESERVE UNIVERSITY **7712**
THE DEVELOPMENT OF A HIGH TEMPERATURE NOX SENSOR U SING TIN OXIDE BASED & MOS BASED DEVICES
04/23/1997 – 10/13/1997 FY97: $55,000 Total: $55,000
Prin. Invest.: C C LIU
Tech. Officer: LERC/G HUNTER
CASE Category: 43 – CHEMICAL ENGR

NCC 3 562 CASE WESTERN RESERVE UNIVERSITY **7713**
IGNITION AND FLAME SPREAD OF LIQUID FUEL POOLS
06/17/1997 – 05/12/2001 FY97: $114,456 Total: $114,456
Prin. Invest.: J S T'IEN
Tech. Officer: LERC/J A SALZMAN
CASE Category: 46 – MECHANICAL ENGR

NCC 3 566 CASE WESTERN RESERVE UNIVERSITY **7714**
DEVELOPMENT OF A SOLID–STATE AMPERMETRIC HIGH TEMP ERATURE OXYGEN SENSOR
07/01/1997 – 09/12/1997 FY97: $35,000 Total: $35,000
Prin. Invest.: C C LIU
Tech. Officer: LERC/G W HUNTER
CASE Category: 43 – CHEMICAL ENGR

NCC 3 574 CASE WESTERN RESERVE UNIVERSITY **7715**
A PROPOSED RESEARCH ON THE DEVELOPMENT OF COMBINED SCHOTKY DIODE & RESISTANCE BASED HYDROGEN SENSORS
08/25/1997 – 12/07/1997 FY97: $80,000 Total: $80,000
Prin. Invest.: C C LIU
Tech. Officer: LERC/G W HUNTER
CASE Category: 43 – CHEMICAL ENGR

NGT 51087 CASE WESTERN RESERVE UNIVERSITY **7716**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/15/1993 – 10/31/1996 FY97: –$92 Total: $57,908
Prin. Invest.: J S TIEN
Tech. Officer: HQ/D A HOLLAND
CASE Category: 46 – MECHANICAL ENGR

NGT 51194 CASE WESTERN RESERVE UNIVERSITY **7717**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/20/1993 – 08/22/1996 FY97: $0 Total: $66,000
Prin. Invest.: R D QUINN
Tech. Officer: MSFC/B SWINFORD
CASE Category: 46 – MECHANICAL ENGR

NGT 51236 CASE WESTERN RESERVE UNIVERSITY **7718**
GRADUATE STUDENT RESEARCHERS PROGRAM
11/22/1994 – 12/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: I GREBER
Tech. Officer: LERC/F MONTEGANI
CASE Category: 46 – MECHANICAL ENGR

NGT 51357 CASE WESTERN RESERVE UNIVERSITY **7719**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/08/1994 – 12/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: D H MATTHIESEN
Tech. Officer: HQ/G A LESANE
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 51361 CASE WESTERN RESERVE UNIVERSITY **7720**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/08/1994 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: D MATTHIESEN
Tech. Officer: HQ/G A LESANE
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 51414 CASE WESTERN RESERVE UNIVERSITY **7721**
GSRP
08/21/1995 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: P S T'IEN
Tech. Officer: HQ/D LONGEDDY
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 70407 CASE WESTERN RESERVE UNIVERSITY **7722**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
12/05/1994 – 12/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: S PHILIPS
Tech. Officer: HQ/D K RUSSELL
CASE Category: 45 – ELECTRICAL ENGR

NGT 90177 CASE WESTERN RESERVE UNIVERSITY **7723**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/27/1993 – 07/15/1997 FY97: $0 Total: $36,000
Prin. Invest.: M BOULDING
Tech. Officer: HQ/D RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 3 52323 CASE WESTERN RESERVE UNIVERSITY **7724**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/04/1996 – 12/31/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: I GREBER
Tech. Officer: LERC/F MONTEGANI
CASE Category: 46 – MECHANICAL ENGR

NGT 3 52328 CASE WESTERN RESERVE UNIVERSITY **7725**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/10/1997 – 07/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: K LOPARO
Tech. Officer: LERC/F J MONTEGANI
CASE Category: 49 – ENGINEERING, OTHER

NGT 5 50064 CASE WESTERN RESERVE UNIVERSITY **7726**
STEADY STATE COMBUSTION OF SIMULATED DROPLETS
08/28/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D DITN
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90056 CASE WESTERN RESERVE UNIVERSITY **7727**
UNDERGRADUATE STUDENT AWARD FOR RESEARCH
02/12/1997 – 08/14/1997 FY97: $12,000 Total: $12,000
Prin. Invest.: M BOULDING
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 43 – CHEMICAL ENGR

NGT 8 52832 CASE WESTERN RESERVE UNIVERSITY **7728**
GRAD STUDENT RESEARCHERS PROGRAM FOR GABRIEL M. NELSON
09/20/1996 – 08/23/1997 FY97: $0 Total: $22,000
Prin. Invest.: G M NELSON
Tech. Officer: MSFC/R HOWARD
CASE Category: 46 – MECHANICAL ENGR

NGT 9 15 CASE WESTERN RESERVE UNIVERSITY **7729**
SUMMER FACULTY FELLOWSHIP
09/24/1996 – 10/30/1997 FY97: $0 Total: $15,000
Prin. Invest.: R P HARVEY
Tech. Officer: JSC/E PRITCHARD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 3 1463 CENTRAL STATE UNIVERSITY – OHIO **7730**
A STUDY OF EVAPORATION FROM A BINARY MENICSUS IN M ICROGRAV-ITY
03/04/1993 – 10/15/1997 FY97: $0 Total: $678,475
Prin. Invest.: M M GIRGIS
Tech. Officer: LERC/J A SALZMAN, LERC/R L THOMPSON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1517 CENTRAL STATE UNIVERSITY – OHIO **7731**
RESEARCH LABORATORY FOR ENGINEERING & TECHNOLOGY (RELENT)
08/19/1993 – 09/30/1997 FY97: –$9,662 Total: $690,328
Prin. Invest.: C B OKHIO
Tech. Officer: LERC/D E LACY
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 3 1554 CENTRAL STATE UNIVERSITY – OHIO **7732**
CLIENT/SERVER STUDY
12/17/1993 – 04/16/1996 FY97: $0 Total: $249,991
Prin. Invest.: K DEZHGOSHA
Tech. Officer: LERC/J J PELOUCH
CASE Category: 22 – COMPUTER SCIENCE

NAG 3 1670 CENTRAL STATE UNIVERSITY – OHIO **7733**
RESEARCH FACILITY TO STUDY FLOWS THROUGH ANNULAR D IFFUSRS
09/28/1994 – 09/30/1997 FY97: –$67,714 Total: $184,272
Prin. Invest.: C B OKHIO
Tech. Officer: LERC/R R TACINA
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1725 CENTRAL STATE UNIVERSITY – OHIO **7734**
PERFORMANCE EVALUATION IN NETWORK–BASED PARALLEL C OMPUT-ING
04/01/1995 – 05/31/1997 FY97: $0 Total: $147,667
Prin. Invest.: K D ZHGOSHA
Tech. Officer: LERC/G J FOLLEN
CASE Category: 22 – COMPUTER SCIENCE

NAG 3 1787 CENTRAL STATE UNIVERSITY – OHIO **7735**
DEVELOPMENT OF SEARCHABLE DATABASE ON GENERAL AVIATION PROPULSION
09/12/1995 – 07/31/1997 FY97: $149,957 Total: $169,957
Prin. Invest.: D A IKOMI, G T NOEL
Tech. Officer: LERC/C E COLE–HAMILTON
CASE Category: 41 – AERONAUTICAL ENGNR

NAGW 4077 CENTRAL STATE UNIVERSITY – OHIO **7736**
EARTH TO LOS ANGELES
07/08/1994 – 05/31/1997 FY97: $0 Total: $1,034,195
Prin. Invest.: D J LOVE
Tech. Officer: HQ/B L WHITE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 3 27790 CENTRAL STATE UNIVERSITY – OHIO **7737**
DIAMOND LIKE CARBON COATINGS FOR HIGH TEMPERATURE LUBRICANT APPLICATIONS
11/07/1995 – 09/07/1997 FY97: $0 Total: $50,000
Prin. Invest.: A RENGAN
Tech. Officer: LERC/D MIYPSHI
CASE Category: 12 – CHEMISTRY

NAG 3 1216 CLEVELAND STATE UNIVERSITY **7738**
A STUDY OF TIME DEPENDENT RESPONSE OF CERAMIC MATE RIALS
12/05/1990 – 08/31/1997 FY97: $19,000 Total: $473,248
Prin. Invest.: J H HEMANN
Tech. Officer: LERC/J P GYEKENYESI, LERC/J M MANDERSCHEID
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 3 1379 CLEVELAND STATE UNIVERSITY **7739**
A RATE–ADJUSTING CONGESTION CONTROL SCHEME FOR SAT ELLITE PACKET SWITCHING NETWORK
11/04/1992 – 07/18/1998 FY97: $0 Total: $189,228
Prin. Invest.: P CHU
Tech. Officer: LERC/H KIM
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1543 CLEVELAND STATE UNIVERSITY **7740**
EXPERIMENTAL & ANALYTICAL FATIGUE STUDIES OF POLYM ER MATRIX COMPOSITES
10/18/1993 – 12/31/1996 FY97: $0 Total: $214,920
Prin. Invest.: J H HEMANN, NONE
Tech. Officer: LERC/J R ELLIS
CASE Category: 44 – CIVIL ENGR

NAG 3 1705 CLEVELAND STATE UNIVERSITY **7741**
ECONOMIC IMPACT STUDY OF NASA LEWIS RESEARCH CENTE R
02/24/1995 – 08/08/1996 FY97: $0 Total: $42,948
Prin. Invest.: D T IANNONE, Z AUSTRIAN
Tech. Officer: LERC/R C ALEXANDER, LERC/J M HAIRSTON, JR
CASE Category: 72 – ECONOMICS

NAG 3 1714 CLEVELAND STATE UNIVERSITY **7742**
OPTICAL PROPERTIES OF SELECTIVE EMITTER MATERIALS FOR THERMO-PHOTOVOLTAIC APPLICATIONS
03/01/1995 – 09/30/1996 FY97: –$1,022 Total: $11,401
Prin. Invest.: P D HAMBOURGER
Tech. Officer: LERC/D L CHUBB, LERC/B S GOOD
CASE Category: 13 – PHYSICS

NAG 3 1756 CLEVELAND STATE UNIVERSITY **7743**
THERMAL ANALYSES FOR MELTING AND FREEZING OF MATER IALS IN A METALLIC CANISTER
06/14/1995 – 11/30/1997 FY97: $17,300 Total: $53,720
Prin. Invest.: M IBRAHIMI, G CHROMIK
Tech. Officer: LERC/C M TOLBERT, LERC/K W BAKER
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1772 CLEVELAND STATE UNIVERSITY **7744**
MINORITY ENGINEERING PROGRAMS PIPELINE – A PROPOSA L TO INCREASE MINIORITY STUDENT ENROLLMENT & RETE
07/26/1995 – 09/06/1997 FY97: –$304 Total: $30,772
Prin. Invest.: P C CHARITY
Tech. Officer: LERC/J E BOYD
CASE Category: 99 – MULTI INTERDISCPL,OTHER

NAG 3 1795 CLEVELAND STATE UNIVERSITY **7745**
ELECTROCHEMICAL CHARATERIZATION OF SEMICONDUCTOR M ATER-IALS AND STRUCTURES
11/13/1995 – 08/12/1996 FY97: $0 Total: $9,950
Prin. Invest.: C GORADIA, M FAUR
Tech. Officer: LERC/S G BAILEY
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1828 CLEVELAND STATE UNIVERSITY **7746**
ULTRA–LOW–COST ROOM TEMPERATURE SIC THIN FILM
04/08/1996 – 04/07/1997 FY97: $0 Total: $50,000
Prin. Invest.: C GORADIA, M FAUR
Tech. Officer: LERC/S G BAILEY
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1922 CLEVELAND STATE UNIVERSITY **7747**
TWO–PHASE ANNUAL FLOW IN HELICAL COIL FLOW CHANNEL S IN A REDUCED GRAVITY ENVIRONMENT
07/23/1996 – 07/16/1999 FY97: $113,000 Total: $213,000
Prin. Invest.: E G KESHOCK, C S LIN
Tech. Officer: LERC/B J MOTIL
CASE Category: 46 – MECHANICAL ENGR

NAG 3 2029 CLEVELAND STATE UNIVERSITY **7748**
DEVELOPMENT OF AN OPTIMIZED MULTIDISCIPLINARY SYST EM DESIGN TOOL USING TAGUCHI TECHNIQUES & NEURAL
04/01/1997 – 12/31/1997 FY97: $40,000 Total: $40,000
Prin. Invest.: P P LIN
Tech. Officer: LERC/K JULES
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 2040 CLEVELAND STATE UNIVERSITY **7749**
FPGA BASED RECONFIGURABLE PACKET SWITCH TEST BED
04/29/1997 – 08/31/1998 FY97: $59,521 Total: $59,521
Prin. Invest.: P P CHU
Tech. Officer: LERC/R E JONES
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 2075 CLEVELAND STATE UNIVERSITY **7750**
MINORITY ENGINEERING PROGRAM PIPELINE
09/17/1997 – 08/31/1998 FY97: $13,800 Total: $13,800
Prin. Invest.: P CHARITY
Tech. Officer: LERC/M L BOROWSKI
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 3 205 CLEVELAND STATE UNIVERSITY **7751**
DURABILITY & LIFE OF CERAMIC MATRIX COMPOSITES IN COMBUSTION ENVIRONMENT
06/11/1991 – 11/30/1996 FY97: $0 Total: $399,992
Prin. Invest.: S N TEWARI
Tech. Officer: LERC/L A GREENBAUER–SENG, LERC/N S JACOBSON
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 285 CLEVELAND STATE UNIVERSITY **7752**
PLASMA–SPRAYED REFRACTORY OXIDE COATINGS ON SILICO N–BASE CERAMICS
03/03/1993 – 11/15/1996 FY97: $0 Total: $286,886
Prin. Invest.: S N TEWARI
Tech. Officer: LERC/L A GREENBAUER–SENG
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 299 CLEVELAND STATE UNIVERSITY **7753**
MACROSEGREGATION IN DIRECIONALLY SOLIDIFIED PB–SN ALLOYS
05/27/1993 – 10/17/1997 FY97: $0 Total: $206,194
Prin. Invest.: S TEWARI
Tech. Officer: LERC/A CHAIT
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 304 CLEVELAND STATE UNIVERSITY **7754**
ULTRASONIC SCANNER CONTROL & DATA ACQUISTION
05/05/1993 – 10/31/1997 FY97: $99,586 Total: $372,937
Prin. Invest.: J HEMANN
Tech. Officer: LERC/G Y BAAKLINI
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 305 CLEVELAND STATE UNIVERSITY **7755**
AN INVESTIGATION OF RELIABILITY MODELS FOR CERAMIC MATRIX COMP & THEIR IMPLE INTO FINITE ELEM CODES
06/29/1993 – 10/31/1997 FY97: $69,644 Total: $230,038
Prin. Invest.: S DUFFY*Prin. Invest.:* NONE
Tech. Officer: LERC/N NEMETH
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 316 CLEVELAND STATE UNIVERSITY **7756**
NON–DESTRUCTIVE EVALUATION OF ADVANCED MATERIALS F OR HEAT ENGINE & SPACE STRUCTURE APPLICATIONS
08/20/1993 – 11/07/1997 FY97: $19,476 Total: $79,606
Prin. Invest.: J HEMANN
Tech. Officer: LERC/A VARY
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 334 CLEVELAND STATE UNIVERSITY **7757**
THE DEVELOPMENT OF ENGINEERING TOMOGRAPHY
12/23/1993 – 10/31/1997 FY97: $97,359 Total: $345,314
Prin. Invest.: J H HEMANN
Tech. Officer: LERC/G Y BAAKLINI, LERC/A VARY
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 342 CLEVELAND STATE UNIVERSITY **7758**
PROFESSIONAL ADVANCED RESEARCH AND ANALYSIS
04/01/1994 – 06/30/1996 FY97: –$200 Total: $260,610
Prin. Invest.: G COULMAN
Tech. Officer: LERC/P R PROKOPIUS
CASE Category: 43 – CHEMICAL ENGR

NCC 3 367 CLEVELAND STATE UNIVERSITY **7759**
A HIGH TEMPERATURE TESTING SYSTEM FOR CERAMIC COMP OSITES
11/01/1994 – 04/30/1998 FY97: $167,534 Total: $369,949
Prin. Invest.: J HEMANN
Tech. Officer: LERC/F HURWITZ
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 376 CLEVELAND STATE UNIVERSITY **7760**
DONE
12/15/1994 – 11/30/1997 FY97: $136,100 Total: $385,600
Prin. Invest.: J MASNOVI
Tech. Officer: LERC/F I HURWITZ
CASE Category: 12 – CHEMISTRY

NCC 3 383 CLEVELAND STATE UNIVERSITY **7761**
PHYSICAL AND CHEMICAL PROPERTIES & SPACE–ENVIRONME NT STABILITY OF NEW MATERIALS FOR SPACE POWER & C
01/01/1995 – 09/30/1996 FY97: –$23,182 Total: $85,197
Prin. Invest.: P D HAMBOURGER
Tech. Officer: LERC/S KUTLEDGE
CASE Category: 13 – PHYSICS

NCC 3 393 CLEVELAND STATE UNIVERSITY **7762**
DEVELOPMENT EVALUATION AND MODELING OF ADVANCED CE RAMIC FIBERS FOR HIGH TEMPERATURE COMPOSITES
01/23/1995 – 03/11/1998 FY97: $125,770 Total: $283,842
Prin. Invest.: S N TEWARI*Prin. Invest.:* NONE
Tech. Officer: LERC/R V MINER
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 400 CLEVELAND STATE UNIVERSITY **7763**
CONTINURD DEVELOPMENT OF EXPERT SYSTEM TOOLS FOR N PSS ENGINE DIAGNOSTICS
03/01/1995 – 08/12/1996 FY97: $0 Total: $32,547
Prin. Invest.: H LEWANDOWSKI
Tech. Officer: LERC/G J FOLLEN, LERC/R BLECH
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NCC 3 403 CLEVELAND STATE UNIVERSITY **7764**
APPLICATION OF THIOETHER FOR VAPOR PHASE LUBRICATION
02/22/1995 – 08/21/1996 FY97: $0 Total: $15,000
Prin. Invest.: E E GRAHAM
Tech. Officer: LERC/W MORALES
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 3 415 CLEVELAND STATE UNIVERSITY **7765**
DESIGN ANALYSIS AND MATERIAL MODELING FOR CERAMIC MATRIX COMPOSITES
05/23/1995 – 11/30/1997 FY97: $114,595 Total: $264,989
Prin. Invest.: S F DUFFY
Tech. Officer: LERC/N N NEMETH
CASE Category: 46 – MECHANICAL ENGR

NCC 3 428 CLEVELAND STATE UNIVERSITY **7766**
PROTEIN CRYSTAL GROWTH AND TRANSPORT PHENOMENA
08/24/1995 – 12/02/1997 FY97: $71,130 Total: $142.100
Prin. Invest.: S N TEWARI
Tech. Officer: LERC/T K GLASGOW
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 433 CLEVELAND STATE UNIVERSITY **7767**
ANALYSIS OF THE USE OF SELECTED MODERN INDUSTRIAL METHODS AND PROCESSES IN THE SCIETIFIC ENVIRONMENT
09/24/1995 – 09/30/1998 FY97: $0 Total: $161,017
Prin. Invest.: D L KRAMEVICH
Tech. Officer: LERC/J M MULLINS
CASE Category: 46 – MECHANICAL ENGR

NCC 3 444 CLEVELAND STATE UNIVERSITY **7768**
COATINGS FOR CERAMIC MATRIX COMPOSITES
01/15/1996 – 11/16/1997 FY97: $140,724 Total: $207,292
Prin. Invest.: S N TEWARI
Tech. Officer: LERC/L A GREENBAUER–SENG
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 445 CLEVELAND STATE UNIVERSITY **7769**
MODIFICATION OF ENVIRONMENTAL/THERMAL BARRIER COATINGS FOR SILICON–BASED CERAMICS
01/15/1996 – 11/21/1997 FY97: $148,341 Total: $229,649
Prin. Invest.: S N TEWARI
Tech. Officer: LERC/L A GREENBAVER–SENG
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 447 CLEVELAND STATE UNIVERSITY **7770**
APPLICATION OF AEROELASTIC SOLVERS BASED ON EULER–NAIVER STOKES EQUATIONS
01/22/1996 – 10/31/1997 FY97: $84,718 Total: $169,218
Prin. Invest.: S DUFFY
Tech. Officer: LERC/N NEMETH
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 448 CLEVELAND STATE UNIVERSITY **7771**
DESIGN PROTOOLS AND ANALYTICAL STRATGIES THAT INCO RPORATED STRUCTURAL RELIABILITY MODELS
01/19/1996 – 01/18/1997 FY97: –$265 Total: $27,620
Prin. Invest.: S DUFFY
Tech. Officer: LERC/N NIVETH
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 461 CLEVELAND STATE UNIVERSITY **7772**
THE APPLICATION OF NEW SOFTWARE TECHNOLOGY TO THE ARCHITECTURE OF THE NATIONAL CYCLE PROGRAM
03/25/1996 – 03/24/1997 FY97: –$115 Total: $42,125
Prin. Invest.: D SCHOCFFLER
Tech. Officer: LERC/G FOLLEN, LERC/D DONDRESI
CASE Category: 22 – COMPUTER SCIENCE

NCC 3 462 CLEVELAND STATE UNIVERSITY **7773**
APPLICATION OF THEOETHER FOR VAPOR PHASE LUBICATIO N
04/09/1996 – 04/08/1997 FY97: $0 Total: $17,000
Prin. Invest.: E E GRAHAM
Tech. Officer: LERC/W MORALES
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 486 CLEVELAND STATE UNIVERSITY **7774**
SPACE ENVIR STABILITY & PHYS PROP OF NEW MATS FOR SPACE POWER & COMMERICAL APPL
07/08/1996 – 07/02/1997 FY97: $0 Total: $37,630
Prin. Invest.: D D HAMBOURGER
Tech. Officer: LERC/S K RUTHLEDGE
CASE Category: 13 – PHYSICS

NCC 3 488 CLEVELAND STATE UNIVERSITY **7775**
DESIGN LIFE METH & COMP ALGOR FOR THE ANALY OF COM P FAB FROM CERAMIC BASED MATERIAL SYSTEMS
07/16/1996 – 11/30/1997 FY97: $60,706 Total: $104,136
Prin. Invest.: S F DUFFY
Tech. Officer: LERC/N N NEMETH
CASE Category: 46 – MECHANICAL ENGR

NCC 3 499 CLEVELAND STATE UNIVERSITY **7776**
HIGH TEMPERATURE MECHANICAL BEHAVIOR OF CERAMIC MA TRIX COM-POSITES
09/04/1996 – 03/31/1998 FY97: $266,650 Total: $306,650
Prin. Invest.: J HEMANN
Tech. Officer: LERC/J SALEM
CASE Category: 46 – MECHANICAL ENGR

NCC 3 507 CLEVELAND STATE UNIVERSITY **7777**
SPECIALISED TECHNICAL ASSISTANCE IN STUDIES OF MIC ROGRAVITY TWO–PHASE FLOW AND CAPILLARY PUMPED LOO
10/09/1996 – 04/08/1997 FY97: $6,177 Total: $6,177
Prin. Invest.: E KESHOCK*Prin. Invest.:* NONE
Tech. Officer: LERC/B S SINGH
CASE Category: 46 – MECHANICAL ENGR

NCC 3 519 CLEVELAND STATE UNIVERSITY **7778**
EXPERIMENTAL AND ANALYTICAL FATIGUE STUDIES OF POL YMER MATRIX COMPOSITES
12/26/1996 – 11/18/1997 FY97: $75,232 Total: $75,232
Prin. Invest.: J HEMANN
Tech. Officer: LERC/J R ELLIS
CASE Category: 44 – CIVIL ENGR

NCC 3 521 CLEVELAND STATE UNIVERSITY **7779**
THE EFFECTS OF MULTIPLE SCATTERING IN PHOTON CORRE LEATION SPECTROSCOPY
12/26/1996 – 11/30/2000 FY97: $74,000 Total: $74,000
Prin. Invest.: J A LOCK
Tech. Officer: LERC/A CHAIT
CASE Category: 13 – PHYSICS

NCC 3 522 CLEVELAND STATE UNIVERSITY **7780**
NOVEL MATERIALS WITH TAILORD CHARACTERISTICS FOR S PACE POWER AND COMMERICAL APPLICATIOS
12/26/1996 – 12/02/1999 FY97: $64,724 Total: $64,724
Prin. Invest.: P D HAMBOURGER
Tech. Officer: LERC/S K RUTLEDGE
CASE Category: 13 – PHYSICS

NCC 3 536 CLEVELAND STATE UNIVERSITY **7781**
ULTRA–LOW–COST ROOM TEMPERATURE SIC THIN FILM
01/27/1997 – 12/31/1997 FY97: $50,000 Total: $50,000
Prin. Invest.: C GORADIA
Tech. Officer: LARC/S G BAILEY
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 572 CLEVELAND STATE UNIVERSITY **7782**
PERFORMANCE ANALYSIS OF DISTRIBUTED OBJECT–ORIENTE D APPLICATIONS
08/05/1997 – 07/08/1998 FY97: $42,420 Total: $42,420
Prin. Invest.: J SCOEFFER
Tech. Officer: LERC/G FOLLEN
CASE Category: 22 – COMPUTER SCIENCE

NCC 3 573 CLEVELAND STATE UNIVERSITY **7783**
APPLICATION OF AN IRON ADDITIVE IN THIO–ETHER FOR ENHANCED VAPOR PHASE LUBRICATION
09/09/1997 – 03/19/1998 FY97: $15,000 Total: $15,000
Prin. Invest.: E D GRAHAM
Tech. Officer: LERC/W MORALES
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 70396 CLEVELAND STATE UNIVERSITY **7784**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
09/13/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: S MISRA
Tech. Officer: HQ/D RUSSELL
CASE Category: 22 – COMPUTER SCIENCE

NAG 3 1404 COLLEGE OF WOOSTER **7785**
THE TURBIDITY OF A BINARY FLUID MIXTURE VERY CLOSE TO THE CRITI-CAL POINT
12/23/1992 – 12/31/1996 FY97: $0 Total: $200,000
Prin. Invest.: D T JACOBS
Tech. Officer: LERC/R A WILKINSON
CASE Category: 13 – PHYSICS

NAG 3 1666 CUYAHOGA COMMUNITY COLLEGE **7786**
SCIENCE & MATH PIPELINE
10/01/1994 – 09/30/1997 FY97: $24,600 Total: $81,900
Prin. Invest.: J L JEFFERSON
Tech. Officer: LERC/J STORTO
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 3 1711 CUYAHOGA COMMUNITY COLLEGE **7787**
CENTER FOR URBAN EXCELLANCE – SCIECE, ENGINEERING MATHEMAT-ICS, AND AEROSPACE ACADEMY (SEMMA)
02/21/1995 – 05/12/1998 FY97: $550,000 Total: $1,598,600
Prin. Invest.: C JOHNSON
Tech. Officer: LERC/R L BONDURANT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 3 1778 CUYAHOGA COMMUNITY COLLEGE **7788**
MENTOR INTERSHIP PARTNERSHIP PROGRAM
08/16/1995 – 08/21/1998 FY97: $19,302 Total: $54,891
Prin. Invest.: R L MOSS
Tech. Officer: LERC/F H YARRIS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 2038 CUYAHOGA COMMUNITY COLLEGE **7789**
SCIENCE, ENGINEERING, MATHEMATICS AND AEROSPACE AC ADEMY REPLICATION
04/21/1997 – 03/31/1998 FY97: $225,000 Total: $225,000
Prin. Invest.: T MCMANAMON
Tech. Officer: LERC/R L BONDURANT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAS 3 97169 CUYAHOGA COMMUNITY COLLEGE **7790**
CLASSROOM REPLICATION OF MAEL AWARDED THROUGH HQ F Y97 PRTNRSHP AWARDS PRGM FOR MINORITY INST W/HBCU
08/07/1997 – 08/07/1998 FY97: $400,000 Total: $400,000
Prin. Invest.: T MC MANAMON
Tech. Officer: LARC/R L BONDURANT, LARC/R F LAWRENCE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 4341 DENISON UNIVERSITY **7791**
LAB SPECTROSCOPY CH4 AND H2
04/23/1997 – 05/31/1998 FY97: $38,100 Total: $38,100
Prin. Invest.: D E MICKELSON
Tech. Officer: GSFC/DBOGAN
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1765 DENISON UNIVERSITY **7792**
LABORATORY SPECTROSCOPIC MEASUREMENTS OF THE ABSORPTION
06/14/1989 – 06/30/1997 FY97: $0 Total: $385,760
Prin. Invest.: M E MICKELSON
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 3 946 KENT STATE UNIVERSITY **7793**
DEVELOPMENT OF SECONDARY ION MASS
10/21/1988 – 08/22/1996 FY97: $0 Total: $299,667
Prin. Invest.: C V ABURTO
Tech. Officer: LERC/I WEINBERG
CASE Category: 13 – PHYSICS

NAG 3 1693 KENT STATE UNIVERSITY **7794**
SELECTIVE EMITTERS FOR THERMOPHOTOVOLTIAC (TPV)_ E NERGY CONVERSION APPLICATION
01/09/1995 – 01/08/1998 FY97: $0 Total: $33,800
Prin. Invest.: C VARGAS–ABURTO
Tech. Officer: LERC/D L CHUBB, LERC/D J FLOOD
CASE Category: 13 – PHYSICS

NAG 3 1726 KENT STATE UNIVERSITY **7795**
RADIATION EFFECTS ON PHOTOVOLTAIC MATERIALS
04/01/1995 – 03/31/1998 FY97: $0 Total: $11,800
Prin. Invest.: C VARGAS–ABURTO
Tech. Officer: LERC/G RYBICKI
CASE Category: 13 – PHYSICS

NAG 3 1751 KENT STATE UNIVERSITY **7796**
KSU/NASA SUMMER INSTITUTE IN SPACE SCIENCE FOR MID DLE GRADE TEACHERS
06/01/1995 – 05/31/1998 FY97: $0 Total: $151,706
Prin. Invest.: J D KELLER, T KOONTZ, T KING
Tech. Officer: LERC/J STORTI
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 3 1810 KENT STATE UNIVERSITY **7797**
PERFORMANCE EVALUATION AND ANALYSIS OF MULTIPLE AC CESS CONTROL PROTOCOLS FOR THE MAARS REGIONAL NET
03/06/1996 – 05/31/1997 FY97: $0 Total: $75,000
Prin. Invest.: H PEYRAVI
Tech. Officer: LERC/B V NGUYEN
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 3638 KENT STATE UNIVERSITY **7798**
LIQUID CRYSTAL FOCAL–PLANE SHUTTERS
03/07/1997 – 02/28/1998 FY97: $74,700 Total: $74,700
Prin. Invest.: D K YANG
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NCC 2 988 KENT STATE UNIVERSITY **7799**
STUDIES ON THE DYNAMICS & OPTICS OF O–260 TWIST LI QUID CRYSTAL DISPLAY
04/10/1997 – 12/31/1997 FY97: $1,500 Total: $1,500
Prin. Invest.: P J BOS
Tech. Officer: ARC/J LARIMER
CASE Category: 13 – PHYSICS

NCC 3 318 KENT STATE UNIVERSITY **7800**
MOLECULAR–ENGINEERED MATERIALS FOR AEROSPACE APPLI CATIONS
07/29/1993 – 07/23/1997 FY97: $0 Total: $342,133
Prin. Invest.: C V ABURTO, D G HEHEMANN
Tech. Officer: LERC/A F HEPP
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 3 394 KENT STATE UNIVERSITY **7801**
INSTRUMENTATION FOR THE MEASUREMENT OF MARS MATERI ALS PROPERTIES
02/06/1995 – 07/15/1998 FY97: $0 Total: $103,438
Prin. Invest.: C VORGAS–ABURTO
Tech. Officer: LERC/A F HEPP
CASE Category: 45 – ELECTRICAL ENGR

NCC 3 457 KENT STATE UNIVERSITY **7802**
MATERIALS PRECURSOR DEVELOPMENT AND CHARACTERIZATI ON
03/15/1996 – 10/31/1998 FY97: $62,000 Total: $115,825
Prin. Invest.: C VARUS–ABURTO, R M URIBE
Tech. Officer: LERC/A F HEPP, LERC/S G BAILEY
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 563 KENT STATE UNIVERSITY **7803**
THIN FILM BATTERIES
06/17/1997 – 04/30/1998 FY97: $48,000 Total: $48,000
Prin. Invest.: C VARCAS ABURTO, R URIBE
Tech. Officer: LERC/A F HEPP
CASE Category: 12 – CHEMISTRY

NGT 51161 KENT STATE UNIVERSITY **7804**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/22/1993 – 09/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: J POTTER
Tech. Officer: HQ/PHUNTER
CASE Category: 22 – COMPUTER SCIENCE

NGT 3 52309 KENT STATE UNIVERSITY **7805**
GRADUATE STUDENT RESEARCHERS PROGRM – HIGH PERFORM ANCE COMPUTING AND COMMUNICATION (HPPC)
07/25/1995 – 01/01/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: S RYAN
Tech. Officer: LERC/L SHAW
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 3 1780 LORAIN COUNTY COMMUNITY COLLEGE **7806**
LORAIN COMMUNITY COLLEGE/NASA LEWIS MENTOR INTERNS HIP PROGRAM
08/17/1995 – 09/14/1998 FY97: $19,968 Total: $56,784
Prin. Invest.: G PILLAINAYAGAM
Tech. Officer: LERC/F H YARRIS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 1017 MIAMI UNIVERSITY **7807**
GRAVIPERCEPTION IN STARCH–DEFICIENT PLANTS IN BIOR ACK
10/31/1995 – 12/31/1997 FY97: $99,993 Total: $177,599
Prin. Invest.: J Z KISS
Tech. Officer: ARC/C M WINGET, ARC/G C JAHNS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 51685 MIAMI UNIVERSITY **7808**
GRAD STUD RES PROG
08/08/1996 – 08/31/1997 FY97: $0 Total: $22,000
Prin. Invest.: J KISS
Tech. Officer: HQ/G LE SANE
CASE Category: 55 – AGRICULTURE

NGT 5 50041 MIAMI UNIVERSITY **7809**
THE ROLE OF INTEGRINS IN THE TRANSDUCTION OF GRAVI
08/15/1997 – 08/31/1998 FY97: $21,965 Total: $21,965
Prin. Invest.: J Z KISS/SWATZELL
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 3 2047 MOUNT VERNON NAZARENE COLLEGE **7810**
DEVELOPING AN NTEGRATED THN FILM FLUORENSCENCE NOX SENSOR
05/06/1997 – 09/30/1997 FY97: $20,000 Total: $20,000
Prin. Invest.: R W GRUKLKE
Tech. Officer: LERC/M L TUMA
CASE Category: 49 – ENGINEERING, OTHER

NAG 1 1922 OHIO NORTHERN UNIVERSITY **7811**
DETERMINATION OF SPECTRAL LINE PARAMETERS IN SELECTED PORTIONS OF THE INFRARED SPECTRUM OF
04/29/1997 – 09/30/1997 FY97: $7,270 Total: $7,270
Prin. Invest.: K A KEPPLER
Tech. Officer: LARC/J G WELLS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1058 OHIO STATE UNIVERSITY **7812**
GENERAL SIMULATION OF HELICOPTERS AND INTERFACE TO ANTENNA PATTERN PREDICTION CODES
09/07/1989 – 10/31/1996 FY97: $1 Total: $882,478
Prin. Invest.: E H NEWMAN, R G ROJAS, W D BURNSIDE
Tech. Officer: LARC/G C BARBER, LARC/M C GILREATH
CASE Category: 45 – ELECTRICAL ENGR

NAG 2 995 OHIO STATE UNIVERSITY **7813**
HUMAN CENTERED TECHNOLGIES & PROCEDURES FOR FUTRUE AIR TRAFFIC MANAGEMENT
08/21/1995 – 10/31/1997 FY97: $75,000 Total: $470,848
Prin. Invest.: P J SMITH, D D WOODS
Tech. Officer: ARC/J M ORASANU, ARC/J D FOSTER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 1023 OHIO STATE UNIVERSITY **7814**
GRAVITROPISM & AUTOTROPISM IN CRESS ROOTS
01/29/1996 – 01/31/1998 FY97: $76,000 Total: $154,976
Prin. Invest.: F D SACK
Tech. Officer: ARC/C M WINGET, ARC/G C JAHNS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 1156 OHIO STATE UNIVERSITY **7815**
HUMAN FACTORS ANALYSIS OF ISSUES IN THE MANAGEMENT & SUPPORT OF AIRPORT SURFACE MOVEMENT
08/27/1997 – 11/30/1997 FY97: $30,000 Total: $30,000
Prin. Invest.: P J SMITH, R DENNING, D WOODS
Tech. Officer: ARC/L SPIRKOVSKA, ARC/B J GLASS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 3 1308 OHIO STATE UNIVERSITY **7816**
THERMAL PROBLEMS IN MATERIALS PROCESSING OF HIGH–T EMPERATURE COMPOSITES
12/10/1991 – 09/21/1996 FY97: $0 Total: $143,304
Prin. Invest.: S A KORPELA
Tech. Officer: LERC/A CHAIT
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1416 OHIO STATE UNIVERSITY **7817**
REVERSE MICELLE BASED SYNTHESIS OF MICROPOUROUS MA TERIALS IN MICROGRAVITY
12/29/1992 – 09/30/1996 FY97: $0 Total: $352,000
Prin. Invest.: P K DUTTA
Tech. Officer: LERC/T K GLASGOW, LERC/P TIN
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1437 OHIO STATE UNIVERSITY **7818**
MODELING OF DIFFUSION IN LIQUID GE & ITS ALLOYS
01/19/1993 – 07/10/1997 FY97: $0 Total: $154,733
Prin. Invest.: D G STROUD
Tech. Officer: LERC/T K GLASGOW, LERC/C R KROLIKOWSKI
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1461 OHIO STATE UNIVERSITY **7819**
HYDROGEN PASSIVATION & CHARACTERIZATION OF MISMATC H–INDUCED DEFECTS OF HETEROEPITAXIAL INP SOLAR CE
02/26/1993 – 06/30/1998 FY97: $50,000 Total: $151,962
Prin. Invest.: S A RINGEL
Tech. Officer: LERC/I WEINBERG
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1465 OHIO STATE UNIVERSITY **7820**
EXPERIMENTAL STUDIES OF HIGH POWER, HIGH PRESSURE PLASMA SOURCES
03/17/1993 – 06/30/1997 FY97: $0 Total: $388,473
Prin. Invest.: P J TURCHI
Tech. Officer: LERC/F M CURRAN, LERC/J M SANKOVIC
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 3 1496 OHIO STATE UNIVERSITY **7821**
ELECTROMAGNETIC SCATTERED FIELD EVALUATION & DATA COMPRESSION USING IMAGING TECHNIQUES
06/02/1993 – 06/14/1996 FY97: –$699 Total: $269,275
Prin. Invest.: W D BURNSIDE
Tech. Officer: LERC/E RHO
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1602 OHIO STATE UNIVERSITY **7822**
INFLUENCE OF FREE CONVECTION IN DISSOLUTION
08/09/1994 – 08/08/1997 FY97: $0 Total: $99,449
Prin. Invest.: P K GUPTA, S A KORPELA
Tech. Officer: LERC/A CHAIT, LERC/M ZLATKOWSKI
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1612 OHIO STATE UNIVERSITY **7823**
INVESTIGATIONS OF MULTIPE–LAYER CONVECTION
06/07/1994 – 02/07/1997 FY97: $0 Total: $100,000
Prin. Invest.: C D ANDERECK
Tech. Officer: LERC/R S SKARDA
CASE Category: 13 – PHYSICS

NAG 3 1723 OHIO STATE UNIVERSITY **7824**
DESIGN TOOLS FOR STRONGLY STABILIZING H CONTROLLER S AND NON-INTERACTING CONTROL OF AIRCRAFT DYNAMICS
03/29/1995 – 03/28/1996 FY97: –$48 Total: $55,195
Prin. Invest.: H OZBAY
Tech. Officer: LERC/S GARG
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1724 OHIO STATE UNIVERSITY **7825**
MIXING ENHANCEMENT IN HIGH REYNOLDS NUMBER SPEED F REE SHEAR LAYERS
04/01/1995 – 05/02/1997 FY97: $0 Total: $50,000
Prin. Invest.: M SAMIMY
Tech. Officer: LERC/K O ZAMAN
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1764 OHIO STATE UNIVERSITY **7826**
THE EFFECTS OF MAGNETIC NOZZLE COFIGURATIONS OF PL ASMA THRUSTERS
07/07/1995 – 11/30/1997 FY97: $75,000 Total: $188,572
Prin. Invest.: P J TURCHI
Tech. Officer: LERC/M MANTENIEKS
CASE Category: 13 – PHYSICS

NAG 3 1809 OHIO STATE UNIVERSITY **7827**
MODELING, VALIDATION AND IDENTIFICATION OF GENERAL AVIATION AIRCRAFT ENGINES
03/01/1996 – 02/28/1997 FY97: $45,001 Total: $50,001
Prin. Invest.: G RIFFON, S YURKOVICH
Tech. Officer: LERC/J L MUSGRAVE
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1826 OHIO STATE UNIVERSITY **7828**
COMPUTATIONAL METHODS FOR STRONGLY STABILIZING H C ONTROLLER
04/11/1996 – 10/31/1997 FY97: $15,000 Total: $49,999
Prin. Invest.: H OZBAY
Tech. Officer: LERC/S GARY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1945 OHIO STATE UNIVERSITY **7829**
ELECTROMAGNETIC COMPUTATIONS FOR 3D MATERIAL STRUC TURES
08/09/1996 – 06/30/1997 FY97: $77,042 Total: $230,042
Prin. Invest.: A DOMINEK
Tech. Officer: LERC/R HANN
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1947 OHIO STATE UNIVERSITY **7830**
CRYSTAL GROWTH & FLUID MECHANICS PROBLEMS IN DIREC IONAL SOLIDIFICATION
08/09/1996 – 11/30/1997 FY97: $60,000 Total: $162,000
Prin. Invest.: S TANVEER
Tech. Officer: LERC/A CHAIT
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1965 OHIO STATE UNIVERSITY **7831**
PASSIVE BIRATION SUPPRESSION OF ROTATING BLADES US ING PIEZOELECTRIC DEVICES
09/05/1996 – 10/31/1996 FY97: $0 Total: $23,985
Prin. Invest.: M H SHEN
Tech. Officer: LERC/O MEHMED, LERC/G L STEFKO
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1979 OHIO STATE UNIVERSITY **7832**
PLANETARY GEAR DYNAMICS & VIBRATION ISOLATION IN R OTORCRAFT TRANSMISSIONS
10/24/1996 – 10/31/1999 FY97: $53,726 Total: $53,726
Prin. Invest.: R G PARKER
Tech. Officer: LERC/T L KANTZ
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1986 OHIO STATE UNIVERSITY **7833**
MIXING ENHANCEMENT & NOISE REDUCTION IN HIGH REYNOLDS NUMBER SUPERSONIC JETS
11/06/1996 – 10/31/1999 FY97: $89,900 Total: $89,900
Prin. Invest.: D, M SAMIMY
Tech. Officer: LERC/K Q ZAMAN
CASE Category: 46 – MECHANICAL ENGR

NAG 3 2007 OHIO STATE UNIVERSITY **7834**
A STUDY OF TAILPLANE ICING
01/27/1997 – 01/14/1998 FY97: $70,030 Total: $70,030
Prin. Invest.: G M GREYOREK
Tech. Officer: LERC/T P RATUVASKY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 2017 OHIO STATE UNIVERSITY **7835**
NUMERICAL ANALYSIS OF UNSTEADY FLOW IN CONVERGING– DIVERGING NOZZLE
03/07/1997 – 11/28/1997 FY97: $72,963 Total: $72,963
Prin. Invest.: J N SCOTT
Tech. Officer: LERC/E A KREJSA, LERC/J F GROENEWEG
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 2041 OHIO STATE UNIVERSITY **7836**
INVESTIGATION FOR IMPROVING GLOBAL POSITIONING SYS TEM (GPS) ORBITS USING A DISCRETE SEQUENTIAL . .
07/17/1992 – 09/30/1997 FY97: $0 Total: $51,028
Prin. Invest.: C C GOAD
Tech. Officer: GSFC/B H PUTNEY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2355 OHIO STATE UNIVERSITY **7837**
MULTIWAVELENGTH STUDY OF X-RAY NOVAE
08/25/1993 – 01/14/1998 FY97: $0 Total: $59,098
Prin. Invest.: R M WAGNER, C R SHRADER
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2477 OHIO STATE UNIVERSITY **7838**
THE STRUCTURE OF THE BROAD-LINE REGION IN WELL-STU DIED AGNS
01/29/1994 – 07/31/1997 FY97: $0 Total: $125,542
Prin. Invest.: B PETERSON
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2864 OHIO STATE UNIVERSITY **7839**
GALACTIC AND LARGE SCALE STRUCTURE
01/06/1995 – 01/14/1996 FY97: $0 Total: $90,000
Prin. Invest.: R J SCHERRER
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2996 OHIO STATE UNIVERSITY **7840**
EXTRACTION AND INTERPRETATION OF POLAR LITHOSPHERI ANOMALIES FROM COMBINED OERSTED AND MAGSAT DATA
07/10/1995 – 07/14/1997 FY97: $70,000 Total: $174,976
Prin. Invest.: R VON FRESE
Tech. Officer: GSFC/P TAYLOR
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3111 OHIO STATE UNIVERSITY **7841**
DARK MATTER AND COSMIC STRUCTURE FORMATION
10/24/1995 – 10/31/1997 FY97: $200,000 Total: $207,000
Prin. Invest.: D H WEINBERG
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3233 OHIO STATE UNIVERSITY **7842**
PROBING THE CENTRAL REGIONS OF ACTIVE NUCLEI
05/15/1996 – 05/14/1998 FY97: $63,919 Total: $124,220
Prin. Invest.: A K PRADHAN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3305 OHIO STATE UNIVERSITY **7843**
SS433'S X-RAY ECLIPSE
07/24/1996 – 01/31/1998 FY97: $0 Total: $3,796
Prin. Invest.: M WAGNER
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3326 OHIO STATE UNIVERSITY **7844**
ECHO TOMOGRAPHY OF REPROCESSING SITES IN X-RAY BIN ARIES.
08/07/1996 – 02/14/1998 FY97: $0 Total: $4,317
Prin. Invest.: M WAGNER
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3366 OHIO STATE UNIVERSITY **7845**
IMAGING ON INFRARED EMISSION FEATURES IN REFLECTIO N NEBULAR
08/15/1996 – 08/14/1998 FY97: $0 Total: $93,700
Prin. Invest.: K SELLGREN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3477 OHIO STATE UNIVERSITY **7846**
"REMOTE SENSING STUDIES OF GLACIER FACIES ON THE G
10/30/1996 – 10/31/1997 FY97: $102,680 Total: $102,680
Prin. Invest.: K JEZEK
Tech. Officer: GSFC/R H THOMAS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3497 OHIO STATE UNIVERSITY **7847**
REVERBERATION MAPPING OF MARKARIAN 335
11/27/1996 – 11/30/1997 FY97: $42,000 Total: $42,000
Prin. Invest.: B M PETERSON
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3525 OHIO STATE UNIVERSITY **7848**
QUASAR ABSORPTION IN THE UV: PROBING THE INTERGALA
11/13/1996 – 09/14/1997 FY97: $114,100 Total: $114,100
Prin. Invest.: D H WEINBERG
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3774 OHIO STATE UNIVERSITY **7849**
RE-EVALUATION OF THE ROLE OF STARCH IN GRAVITROPIC
03/06/1997 – 02/14/1998 FY97: $90,301 Total: $90,301
Prin. Invest.: F SACK
Tech. Officer: GSFC/T SCOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 3817 OHIO STATE UNIVERSITY **7850**
MULTIWAVELENGTH STUDIES OF X-RAY NOVAE
01/14/1997 – 01/14/1998 FY97: $10,000 Total: $10,000
Prin. Invest.: R WAGNER
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3969 OHIO STATE UNIVERSITY **7851**
INTERNATIONAL CONFERENCE ON GEOSCIENCE EDUCATION
03/11/1997 – 08/31/1997 FY97: $15,000 Total: $15,000
Prin. Invest.: V J MAYER
Tech. Officer: GSFC/N NORMANDY
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3983 OHIO STATE UNIVERSITY **7852**
MILLIMETER AND SUBMILLIMETER SPECTROSCOPY OF MOLEC IMPORTANCE
03/03/1997 – 02/28/1998 FY97: $103,322 Total: $103,322
Prin. Invest.: F C DEELUCIA
Tech. Officer: GSFC/M J KURYLO
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4075 OHIO STATE UNIVERSITY **7853**
A COOPERATIVE PALEOCLIMATE STUDY OF GRAHAM BELL IC LAND, RUSSIA
05/06/1997 – 01/31/1998 FY97: $266,425 Total: $266,425
Prin. Invest.: D L THOMPSON
Tech. Officer: GSFC/R H THOMAS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4239 OHIO STATE UNIVERSITY **7854**
BLACK HOLE X-RAY NOVA OUTBURST WITH XTE AND HST
04/18/1997 – 03/31/1998 FY97: $2,945 Total: $2,945
Prin. Invest.: M WAGNER
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4250 OHIO STATE UNIVERSITY **7855**
SAR-BASED STRUCTURAL MAPPING OF THE TRANSANTARCTIC
03/24/1997 – 03/31/1998 FY97: $39,051 Total: $39,051
Prin. Invest.: T J WILSON
Tech. Officer: GSFC/R H THOMAS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4405 OHIO STATE UNIVERSITY **7856**
X-RAY OBSERVATIONS OF THE HIGHEST FIELD AM HE SYST
05/06/1997 – 05/14/1998 FY97: $9,395 Total: $9,395
Prin. Invest.: M WAGNER
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4849 OHIO STATE UNIVERSITY **7857**
RADARSAT: THE ANTARCTIC MAPPING PROJECT
07/23/1997 – 06/30/1998 FY97: $419,757 Total: $419,757
Prin. Invest.: D JEZEK
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 5032 OHIO STATE UNIVERSITY **7858**
NET ANNUAL ACCUMULATION IN WESTERN GREENLAND FOR THE LAST 200 YEARS
03/28/1995 – 09/30/1997 FY97: $63,707 Total: $201,777
Prin. Invest.: E MOSLEY-THOMPSON
Tech. Officer: WFF/W B KRABILL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 5037 OHIO STATE UNIVERSITY **7859**
MASS BALANCE OF THE GREENLAND ICE SHEET USING GPS MEASUREMENTS
04/27/1995 – 09/30/1997 FY97: $0 Total: $152,274
Prin. Invest.: G HAMILTON
Tech. Officer: WFF/W B KRABILL
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6001 OHIO STATE UNIVERSITY **7860**
SATELITE AND MODEL ANALYSIS OF THE ATMOSPHERIC MOI LATITUDES
09/10/1997 – 07/31/1998 FY97: $149,903 Total: $149,903
Prin. Invest.: D BROMWICH
Tech. Officer: HQ/S GOGINENI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6344 OHIO STATE UNIVERSITY **7861**
HUMAN INTERACTION DESIGN FOR ANOMALY RESPONSE
09/11/1997 – 05/31/1998 FY97: $66,000 Total: $66,000
Prin. Invest.: D WOODS
Tech. Officer: GSFC/G FOGLEMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 8 1267 OHIO STATE UNIVERSITY **7862**
REVERSE MICELLE BASED SYNTHESIS OF MICROPOROUS MATERIALS IN MICROGRAVITY
05/23/1996 – 05/31/1998 FY97: $34,860 Total: $117,860
Prin. Invest.: P K DUTTA, R ANSARI, C T KRESGE
Tech. Officer: MSFC/D R WOODARD, MSFC/R W ALLEN
CASE Category: 13 – PHYSICS

NAG 9 786 OHIO STATE UNIVERSITY **7863**
HUMAN INTERACTON DESIGN FOR COOPERATING AUTOMATION
05/31/1995 – 01/05/1998 FY97: $22,000 Total: $63,000
Prin. Invest.: D WOODS
Tech. Officer: JSC/J MALIN
CASE Category: 46 – MECHANICAL ENGR

NAGW 973 OHIO STATE UNIVERSITY **7864**
COMMERCIAL DEVELOPMENT OF SPACE
09/01/1986 – 09/30/1997 FY97: $100,000 Total: $11,778,048
Prin. Invest.: H MOELLERING, J KIMERLING, A F SCHENK
Tech. Officer: HQ/W A ORAN, HQ/A VILLAMIL
CASE Category: 41 – AERONAUTICAL ENGNR

NAGW 2639 OHIO STATE UNIVERSITY **7865**
MILLIMETER AND SUBMILLIMETER SPECTROSCOPY
08/20/1991 – 09/30/1997 FY97: $0 Total: $630,847
Prin. Invest.: F C DE LUCIA
Tech. Officer: HQ/M J KURYLO, HQ/R F HAMPSON
CASE Category: 13 – PHYSICS

NAGW 2718 OHIO STATE UNIVERSITY **7866**
GENERAL CIRCULATION MODEL SIMULATIONS FOR ANTARCTI CA
08/30/1991 – 09/30/1997 FY97: $0 Total: $420,776
Prin. Invest.: D H BROMWICH
Tech. Officer: HQ/R H THOMAS, HQ/R A SCHIFFER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 2906 OHIO STATE UNIVERSITY **7867**
SUBMILLIMETER LABORATORY INVESTIGATIONS: SPECTROS COPY AND COLLISIONS
02/20/1992 – 07/31/1997 FY97: $0 Total: $324,778
Prin. Invest.: E HERBST, F C DE LUCIA
Tech. Officer: HQ/L J CAROFF
CASE Category: 11 – ASTRONOMY

NAGW 3668 OHIO STATE UNIVERSITY **7868**
DETECTION OF EXTRATERRESTRIAL SIGNALS AT OHIO STAT E UNIVERSITY
06/23/1993 – 05/31/1997 FY97: $0 Total: $130,600
Prin. Invest.: C A KLEIN
Tech. Officer: HQ/J D RUMMEL
CASE Category: 11 – ASTRONOMY

NAGW 3677 OHIO STATE UNIVERSITY **7869**
SATELLITE AND MODEL ANALYSIS OF THE ATMOSPHERIC MO ISTURE BUDGET
06/30/1993 – 09/30/1997 FY97: $0 Total: $496,801
Prin. Invest.: D H BROMWICH
Tech. Officer: HQ/R H THOMAS, HQ/R A SCHIFFER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4215 OHIO STATE UNIVERSITY **7870**
SAR OBSERVATIONS OF THE POLAR ICE SHEETS
12/07/1994 – 08/31/1997 FY97: $0 Total: $553,252
Prin. Invest.: K JEZEK
Tech. Officer: HQ/R H THOMAS, HQ/J S THEON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4472 OHIO STATE UNIVERSITY **7871**
RE-EVALUATION OF THE ROLE OF STARCH IN GRAVITROPIC SENSING
05/15/1995 – 03/31/1997 FY97: $0 Total: $164,977
Prin. Invest.: F D SACK
Tech. Officer: HQ/T K SCOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4522 OHIO STATE UNIVERSITY **7872**
CELLULAR SPECIFICITY IN ARABIDOPSIS ROOT GRAVITROPISM
05/30/1995 – 06/30/1997 FY97: $0 Total: $187,713
Prin. Invest.: M L EVANS
Tech. Officer: HQ/T K SCOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4560 OHIO STATE UNIVERSITY **7873**
HUMAN INTERACTION DESIGN FOR ANOMALY
06/02/1995 – 09/30/1997 FY97: $0 Total: $123,000
Prin. Invest.: D D WOODS
Tech. Officer: HQ/G FOGLEMAN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4744 OHIO STATE UNIVERSITY **7874**
RADARSAT: THE ANTARCTIC MAPPING PROJECT
09/25/1995 – 09/30/1998 FY97: $0 Total: $2,289,393
Prin. Invest.: K C JEZEK
Tech. Officer: HQ/M E MAIDEN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4903 OHIO STATE UNIVERSITY **7875**
A COOPERATIVE ICE CORE PALEOCLIMATE STUDY OF WINDY DOME ICE CAP ON GRAHAM BELL ISLAND IN FRANZ JOSE
01/26/1996 – 09/30/1997 FY97: $0 Total: $327,396
Prin. Invest.: L THOMPSON
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4951 OHIO STATE UNIVERSITY **7876**
GROUND-BASED AND SMALL PAYLOADS RESEARCH IN SPACE LIFE SCIENCES
07/16/1996 – 06/30/1997 FY97: -$61,000 Total: $73,189
Prin. Invest.: M D PORTER, PH.D.
Tech. Officer: HQ/G FOGLEMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4985 OHIO STATE UNIVERSITY **7877**
SAR BASED STRUCTURAL MAPPING
03/05/1996 – 09/30/1997 FY97: $0 Total: $62,483
Prin. Invest.: T J WILSON
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG10 179 OHIO STATE UNIVERSITY **7878**
DIFFERENTIATION IN SPACE GROWN MOSS
12/07/1995 – 12/14/1997 FY97: $103,852 Total: $183,848
Prin. Invest.: F SACK
Tech. Officer: KSC/W KNOLL
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG13 42 OHIO STATE UNIVERSITY **7879**
A CENTER FOR THE COMMERCIAL DEVELOPMENT OF SPACE: REAL-TIME AIRBORNE/SATELLITE MAPPING
01/10/1997 – 01/08/1998 FY97: $800,000 Total: $800,000
Prin. Invest.: J D BOSSLER
Tech. Officer: SSC/H CARR
CASE Category: 32 – GEOLOGICAL SCIENCE

NAS 1 96009 OHIO STATE UNIVERSITY **7880**
REDESIGN AND MODIFICATION OF THE GIGAHERTZ TRANSVERSE ELECTROMAGNETIC TEST CHAMBER(GTEM)
08/23/1996 – 02/22/1998 FY97: $1,123 Total: $150,000
Prin. Invest.: W D BURNSIDE, A K DOMINCK, N N WANG
Tech. Officer: LARC/T X NGUYEN, LARC/R A WILLIAMS
CASE Category: 45 – ELECTRICAL ENGR

NAS 3 97030 OHIO STATE UNIVERSITY **7881**
NRA-ULTRASONIC CHARACTERIZATION OF FATIGE MICRO DA MAGE
11/08/1996 – 11/08/1997 FY97: $53,000 Total: $53,000
Prin. Invest.: S ROKHLIN, G MAJOR, D WILLIARD
Tech. Officer: LERC/D J ROTH
CASE Category: 47 – METAL & MATERIALS ENGR

NAS 5 30946 OHIO STATE UNIVERSITY **7882**
GLRS TEAM MEMBER SUPPORT TO THE EARTH OBSERVING SYSTEM (EOS) PROGRAM
12/18/1990 – 12/31/1997 FY97: $94,983 Total: $449,762
Prin. Invest.: R H THOMAS
Tech. Officer: GSFC/T W HAMILTON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 32643 OHIO STATE UNIVERSITY **7883**
A COMPREHENSIVE OPACITIES/ATOMIC DATABASE FOR THE ANALYSIS OF ASTROPHYSICAL SPECTRA AND MODELING
08/18/1994 – 09/17/1997 FY97: $0 Total: $177,000
Prin. Invest.: A PRADHAN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAS 8 39930 OHIO STATE UNIVERSITY **7884**
VPPA TORCH PERFORMANCE AND DESIGN ANALYSIS
03/29/1994 – 03/28/1996 FY97: $0 Total: $192,218
Prin. Invest.: V SABRAMANIAM
Tech. Officer: MSFC/C RUSSELL
CASE Category: 47 – METAL & MATERIALS ENGR

NCA 1 146 OHIO STATE UNIVERSITY **7885**
AGATE PROGRAM – GENERAL AVIATION
07/11/1996 – 10/31/1997 FY97: $27,000 Total: $57,000
Prin. Invest.: G CHUBB
Tech. Officer: LARC/B J HOLMES, LARC/M H DURHAM
CASE Category: 41 – AERONAUTICAL ENGNR

NCA 3 122 OHIO STATE UNIVERSITY **7886**
2.1.5.3 VALIDATE ENGINE MODULE USING TEST DATA
03/04/1997 – 12/31/1997 FY97: $15,000 Total: $15,000
Prin. Invest.: R FORTNER
Tech. Officer: LERC/J L MUSGRAVE
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 1 209 OHIO STATE UNIVERSITY **7887**
COGNITIVE FACTORS IN THE INTERFACE BETWEEN FLIGHT CREWS AND MODERN FLIGHT DECK SYSTEMS
02/03/1995 – 08/02/1996 FY97: –$653 Total: $124,074
Prin. Invest.: D D WOODS, N B SARTER
Tech. Officer: LARC/K H ABBOTT
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 592 OHIO STATE UNIVERSITY **7888**
COGNITIVE ENGINEERING IN AEROSPACE APPLICATIONS
03/13/1989 – 05/31/1997 FY97: $0 Total: $861,342
Prin. Invest.: D D WOODS
Tech. Officer: ARC/K CORKER, ARC/B T SWEET
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 830 OHIO STATE UNIVERSITY **7889**
DISTRIBUTED & COOPERATIVE PROBLEM–SOLFING IN THE N ATIONAL AVIATION SYSTEM
10/19/1993 – 01/31/1998 FY97: $81,700 Total: $284,060
Prin. Invest.: P J SMITH
Tech. Officer: ARC/J M ORASANU
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 3 434 OHIO STATE UNIVERSITY **7890**
DEVELOPMENT OF LOW REYNOLDS NUMBER HEAT EXCHANGERS
09/25/1995 – 10/31/1996 FY97: $119,770 Total: $333,615
Prin. Invest.: R N CHRISTENSEN, Y GUEZENNEC
Tech. Officer: LERC/T T MOCKLER, LERC/D BENTS
CASE Category: 46 – MECHANICAL ENGR

NCC 3 467 OHIO STATE UNIVERSITY **7891**
A STUDY OF TAILPLANE ICING
04/11/1996 – 04/10/1998 FY97: $0 Total: $119,605
Prin. Invest.: G M GREGOREK
Tech. Officer: LERC/T P RATVASKY
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 3 492 OHIO STATE UNIVERSITY **7892**
INVESTIGATION OF LOSSES & ACOUSTIC NOISE OF SWITCH ED RELUCTANCE MACHINE
08/05/1996 – 06/30/1997 FY97: $0 Total: $24,500
Prin. Invest.: D XU
Tech. Officer: LERC/D J CONNOLLY
CASE Category: 46 – MECHANICAL ENGR

NCC 3 555 OHIO STATE UNIVERSITY **7893**
MODELING OF DIFFUSION IN LLIQUID GE & ITS ALLOYS
05/06/1997 – 07/10/1998 FY97: $42,000 Total: $42,000
Prin. Invest.: STROUD
Tech. Officer: LERC/T K GLASGOW
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 30236 OHIO STATE UNIVERSITY **7894**
GLOBAL CHANGE FELLOWSHIP PROGRAM
10/10/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: E C DELUCIA
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 51072 OHIO STATE UNIVERSITY **7895**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/02/1993 – 06/30/1996 FY97: –$19,655 Total: $46,345
Prin. Invest.: M R FOSTER
Tech. Officer: HQ/D A HOLLAND
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51193 OHIO STATE UNIVERSITY **7896**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/29/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: K ISHII
Tech. Officer: LERC/F MONTEGANI
CASE Category: 46 – MECHANICAL ENGR

NGT 51255 OHIO STATE UNIVERSITY **7897**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/14/1994 – 12/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: T E NYGREN
Tech. Officer: LARC/L EVANS
CASE Category: 62 – PSYCHOLOGY SOCIAL ASPECTS

NGT 51281 OHIO STATE UNIVERSITY **7898**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/14/1994 – 09/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: F SACK
Tech. Officer: HQ/G LESANE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 70349 OHIO STATE UNIVERSITY **7899**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
08/12/1993 – 09/06/1996 FY97: $0 Total: $66,000
Prin. Invest.: S KORPELA
Tech. Officer: HQ/D K RUSSELL
CASE Category: 46 – MECHANICAL ENGR

NGT 5 30012 OHIO STATE UNIVERSITY **7900**
AN ICE CORE PALEOCLIMATE STUDY OF WINDY DOME, FRAN DEVELOPMENT OF A SEA ICE PROXY FROM SATELLITE AND
10/14/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: L G THOMPSON*Prin. Invest.:* NONE
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30042 OHIO STATE UNIVERSITY **7901**
BIOMASS BURNING IN TROPICAL RAIN FORESTS: AN ANALY AND LAND USE PRACTICE TO ASSESS BURNING PATTERNS
10/17/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: E MOSLEY–THOMPSON
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 50015 OHIO STATE UNIVERSITY **7902**
THE ROLE OF ELECTRICAL EVENTS IN CONTROLLING DIFFE GRAVITROPISM IN THE DEZ
09/06/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: M EVANS, NONE
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NSG 1613 OHIO STATE UNIVERSITY **7903**
RADAR CROSS SECTION STUDIES
04/18/1979 – 03/31/1998 FY97: $377,000 Total: $9,111,694
Prin. Invest.: W D BURNSIDE, L PETERS, JR, A K DOMINEK
Tech. Officer: LARC/M C GILREATH, LARC/W C SAWYER
CASE Category: 45 – ELECTRICAL ENGR

NAG 1 1423 OHIO UNIVERSITY **7904**
GPS INTERFEROMETRY
04/06/1992 – 03/31/1998 FY97: $35,000 Total: $694,268
Prin. Invest.: F VAN GRAAS
Tech. Officer: LARC/R M HUESCHEN
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 3050 OHIO UNIVERSITY **7905**
THE THREE DIMENSIONAL MASS DISTRIBUTIONS IN ELLIPTICAL GALAXIES
09/01/1995 – 12/14/1997 FY97: $54,000 Total: $119,326
Prin. Invest.: T STATLER
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3563 OHIO UNIVERSITY **7906**
IR SPECTROSCOPY OF THE LOWEST LUMINOSITY SY 1 NUCL
01/29/1997 – 04/30/1999 FY97: $51,800 Total: $51,800
Prin. Invest.: J C SHIELDS
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3690 OHIO UNIVERSITY **7907**
MULTIWAVELENGTH STUDY OF HIGH REDSHIFT QUASARS
01/22/1997 – 01/31/1998 FY97: $10,000 Total: $10,000
Prin. Invest.: J C SHIELDS
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 8 1041 OHIO UNIVERSITY **7908**
ENHANCEMENTS TO THE SSME TRANSFER FUNCTION MODEL ING CODE
03/16/1994 – 12/04/1996 FY97: $0 Total: $96,376
Prin. Invest.: R D IRWIN, J R MITCHELL
Tech. Officer: MSFC/T H FOX
CASE Category: 46 – MECHANICAL ENGR

NCC 2 827 OHIO UNIVERSITY **7909**
DISTRIBUTED & COOPERATIVE PROBLEM-SOLVING IN THE N ATIONAL AVIATION SYSTEM
09/20/1993 – 01/14/1998 FY97: $80,300 Total: $271,460
Prin. Invest.: C E MCCOY, P J SMITH
Tech. Officer: ARC/J M ORASANU
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 3 430 OHIO UNIVERSITY **7910**
HIGH PERFORMANCE TCP/IP APPLICATIONS FOR USE OVER FAST SATELLITE COMMUNICATIONS CHANNELS
09/19/1995 – 03/03/1998 FY97: $94,289 Total: $183,825
Prin. Invest.: H KRUSE
Tech. Officer: LERC/R J SCHERTLER
CASE Category: 49 – ENGINEERING, OTHER

NAG 1 448 UNIVERSITY OF AKRON **7911**
SYNTHESIS & CHARATERIZATION OF THERMALLY-STABLE SOLVENT/IMPACT RESISTANT THERMOPLASTIC POLYMIDES
02/13/1984 – 03/31/1998 FY97: $55,000 Total: $1,114,995
Prin. Invest.: F W HARRIS
Tech. Officer: LARC/P M HERGENROTHER, LARC/B J JENSEN
CASE Category: 12 – CHEMISTRY

NAG 3 1223 UNIVERSITY OF AKRON **7912**
DAMAGE MECHANICS CONTROLLED BY THE INTERACTION OF MICRO-CRACKS IN THE INTERPHASE OF MMC AND BMC
11/28/1990 – 09/01/1996 FY97: $0 Total: $256,003
Prin. Invest.: W K BINIENDA
Tech. Officer: LERC/S M ARNOLD
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1376 UNIVERSITY OF AKRON **7913**
DEVELOPMENT OF A MODEL BASED TECHNIQUE FOR GEAR DI AGNOSTICS USING THE WIGNER-VILLE METHOD
10/30/1992 – 12/07/1996 FY97: $0 Total: $179,999
Prin. Invest.: F K CHOY
Tech. Officer: LERC/J J ZAKRAJSEK
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1450 UNIVERSITY OF AKRON **7914**
INTERDISCIPLINARY RESEARCH IN COMPUTATIONAL FLUID DYNAMICS & CONTROL SYSTEMS
02/10/1993 – 11/07/1997 FY97: $0 Total: $243,775
Prin. Invest.: T T HARTLEY
Tech. Officer: LERC/K J MELCHER, LERC/C F LORENZO
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1491 UNIVERSITY OF AKRON **7915**
UTILIZATION OF THE FRACTIONAL CALCULUS IN CONTROL ENGINEERING
04/26/1993 – 04/30/1997 FY97: $0 Total: $134,176
Prin. Invest.: T T HARTLEY
Tech. Officer: LERC/C F LORENZO
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1498 UNIVERSITY OF AKRON **7916**
MODELING & STRUCTURE-PROPERTY RELATIONSHIPS OF POL YMIDE THERMOSETTING RESINS
05/26/1993 – 11/16/1996 FY97: $0 Total: $79,085
Prin. Invest.: F N KELLEY, V GALIATSATOS
Tech. Officer: LERC/G D ROBERTS
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1551 UNIVERSITY OF AKRON **7917**
APPLICATIONS OF PARALLEL COMPUTATION IN MICRO-MECH ANICS & FINITE ELEMENT METHOD
12/02/1993 – 05/05/1996 FY97: $0 Total: $100,103
Prin. Invest.: H TAN
Tech. Officer: LERC/S M ARNOLD
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1746 UNIVERSITY OF AKRON **7918**
ALGORITHMS FOR PARAMETER ESTIMATION IN VISCOPLASTI C MATERIAL MODELS
05/19/1995 – 10/18/1996 FY97: $0 Total: $70,000
Prin. Invest.: A F SALEEB
Tech. Officer: LERC/S M ARNOLD
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1747 UNIVERSITY OF AKRON **7919**
DEVELOPMENTS IN COUPLED DEFORMATION–DAMAGE AND FRA CTURE MODELING FOR LIFE PREDICTIONS OF STRUCTURES
05/19/1995 – 03/24/1998 FY97: $132,781 Total: $232,179
Prin. Invest.: A F SALEEB
Tech. Officer: LERC/S M ARNOLD
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1827 UNIVERSITY OF AKRON **7920**
MIXED–MODE COMPLEX SHAPE CRACKS PROPAGTION IN ANIS OTROPIC PLATES
04/11/1996 – 08/30/1997 FY97: $46,354 Total: $56,354
Prin. Invest.: D K BINIENDA
Tech. Officer: LERC/S M ARNOLD
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 2069 UNIVERSITY OF AKRON **7921**
FE/ANALLYTICAL LIFE PREDICTION OF BRITTLE MATERIAL S
08/19/1997 – 05/31/2000 FY97: $48,304 Total: $48,304
Prin. Invest.: J PADOVAN, W K BINIENDA
Tech. Officer: LERC/G R HALFORD
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2079 UNIVERSITY OF AKRON **7922**
SOLID–STATE NMR CHARACTERIZATION OF FEP/A1 FILMS F ROM THE HUBBLE SPACE TELESCOPE
09/26/1997 – 11/16/1997 FY97: $3,496 Total: $3,496
Prin. Invest.: M ESPE
Tech. Officer: LERC/J A DEVER
CASE Category: 12 – CHEMISTRY

NCC 3 164 UNIVERSITY OF AKRON **7923**
PULSED NMR & DIFFUSION STUDIES IN HIGH TEMPERATURE STRUCTURAL POLYMERS & COMPOSITES
01/29/1990 – 12/31/1995 FY97: –$5 Total: $124,233
Prin. Invest.: E D VON MEERWALL
Tech. Officer: LERC/G D ROBERTS
CASE Category: 13 – PHYSICS

NCC 3 209 UNIVERSITY OF AKRON **7924**
MULTIVARIABLE ADAPTATIVE CONTROL OF INTERFACE FOR PROGRAMMABLE MULTIZONE CRYSTAL GROWTH FURNACE
02/27/1991 – 10/25/1996 FY97: $0 Total: $162,312
Prin. Invest.: C BATUR
Tech. Officer: LERC/B N ROSENTHAL, LERC/T K GLASGOW
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 225 UNIVERSITY OF AKRON **7925**
ORGANOMETALLIC POLYMERIC CONDUCTORS
06/28/1991 – 04/08/1996 FY97: –$2 Total: $433,130
Prin. Invest.: W J YOUNGS
Tech. Officer: LERC/M A MEADOR
CASE Category: 12 – CHEMISTRY

NCC 3 283 UNIVERSITY OF AKRON **7926**
SHOCK POSITION SENSING: THEORY, EXPERIMENT AND DES IGN
11/17/1992 – 12/31/1997 FY97: $9,930 Total: $167,627
Prin. Invest.: S I HARIHARAN
Tech. Officer: LERC/G ADAUIOVSKY
CASE Category: 45 – ELECTRICAL ENGR

NCC 3 368 UNIVERSITY OF AKRON **7927**
COMPUTATIONAL TOOLS AND TECHNIQUES FOR THE MACRO/M ICROMECHANICAL ANALYSIS OF COMPOSITES STRUCTURE
11/01/1994 – 12/15/1995 FY97: –$600 Total: $74,400
Prin. Invest.: A F SALEEB
Tech. Officer: LERC/S M ARNOLD
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 3 375 UNIVERSITY OF AKRON **7928**
DEVELOPMENT OF LIFE PREDICTION METHODOLOGY & EFFIC IENT FINTE ELEMENT ANALYSIS TECH FOR APPL. AEROSP
12/01/1994 – 11/30/1996 FY97: –$9,440 Total: $192,917
Prin. Invest.: D C BUCHTHAL
Tech. Officer: LERC/G R HALFORD
CASE Category: 49 – ENGINEERING, OTHER

NCC 3 441 UNIVERSITY OF AKRON **7929**
COMPUTATIONAL TOOL AND TECHNIQUES FOR THE MACRO/NUCRIMEMECHANICAL ANALYSIS OF COMPOSITE STRUCTURES
12/14/1995 – 01/07/1998 FY97: $164,000 Total: $230,919
Prin. Invest.: A F SALEEB
Tech. Officer: LERC/S M ARNOLD
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 3 442 UNIVERSITY OF AKRON **7930**
INVESTIGATION OF CARBON INTERFACE WITH SIZINGS AND POLYIMIDE MATRICES: THERMO–OXIDATATIVE STABILITY
01/19/1996 – 08/17/1997 FY97: $15,664 Total: $93,352
Prin. Invest.: R K EBY
Tech. Officer: LERC/M A MEADOR
CASE Category: 13 – PHYSICS

NCC 3 451 UNIVERSITY OF AKRON **7931**
DEVELOPMENT OF A CRYSTAL GROWTH CONTROLLER FUNDING
02/07/1996 – 11/30/1997 FY97: $28,010 Total: $63,010
Prin. Invest.: C BAUTR
Tech. Officer: LERC/W DUVAL
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 494 UNIVERSITY OF AKRON **7932**
SOFTWARE & HARDWARE DEVELOPMENT IN COMPUTATIONAL M ATERIALS SCIENCE
08/09/1996 – 05/31/1998 FY97: $95,000 Total: $246,348
Prin. Invest.: G YOUNG
Tech. Officer: LERC/A CHAIT
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 508 UNIVERSITY OF AKRON **7933**
INTERDISCIPLINARY RESEARCH IN COMPUTATIONAL FLUID DYNAMICS & CONTROL SYSTEMS
10/22/1996 – 10/31/1997 FY97: $67,284 Total: $67,284
Prin. Invest.: T T HARTLEY
Tech. Officer: LERC/K J MELCHER
CASE Category: 49 – ENGINEERING, OTHER

NCC 3 526 UNIVERSITY OF AKRON **7934**
UTILIZATION OF FRACTIONAL ORDER SYSTEMS IN CONTROL IN ENGINEERING
01/06/1997 – 11/30/1997 FY97: $39,491 Total: $39,491
Prin. Invest.: T T HARTLEY
Tech. Officer: LERC/C LORENZO
CASE Category: 49 – ENGINEERING, OTHER

NCC 3 545 UNIVERSITY OF AKRON **7935**
DEVELOPMENT OF ADVANCED LIFE PREDICTION & FINITE E LEMENT ANALYSIS TECHNIQUE FOR AEROSPAC COMPONENTS
02/24/1997 – 01/22/2000 FY97: $135,030 Total: $135,030
Prin. Invest.: D C BUCHTHAL, V K ARYA
Tech. Officer: LERC/G R HALFORD
CASE Category: 49 – ENGINEERING, OTHER

NCC 3 547 UNIVERSITY OF AKRON **7936**
ECONOMICAL PROCESSING AND IMPROVED RELIABLE HIGH T EMPERATURE PERFORMANCE OF POLYIMIDE–CARBON FIBER
02/25/1997 – 01/14/1998 FY97: $131,543 Total: $131,543
Prin. Invest.: R K EBY
Tech. Officer: LERC/M MEADOR
CASE Category: 13 – PHYSICS

NCC 3 567 UNIVERSITY OF AKRON **7937**
DETERMINATION OF OPTIMUM HEATING ZONE LENGTH & CON TROL THERMOCOUPLE PLACEMENT FOR GRIDGMAN CRYSTAL G
07/01/1997 – 12/31/1997 FY97: $33,999 Total: $33,999
Prin. Invest.: C BATUR
Tech. Officer: LERC/W B DUVAL
CASE Category: 46 – MECHANICAL ENGR

NGT 2 52228 UNIVERSITY OF AKRON **7938**
THE DEVELOPMENT OF NEURAL–NETWORK–ENHANCE ELECTRIC AL INDEPENDANCE CARDIOGRAPH FOR HEMODYNAMIC.....
08/14/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: B C TAYLOR
Tech. Officer: ARC/P S COWINGS
CASE Category: 49 – ENGINEERING, OTHER

NGT 3 52327 UNIVERSITY OF AKRON **7939**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/10/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: R K EBY
Tech. Officer: LERC/F J MONTEGANI
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 1 1280 UNIVERSITY OF CINCINNATI **7940**
STRUCTURAL SIMILITUDE AND SCALING LAWS – FDP
06/12/1991 – 06/03/1998 FY97: $25,000 Total: $316,628
Prin. Invest.: G J SIMITSES
Tech. Officer: LARC/J H STARNES
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1553 UNIVERSITY OF CINCINNATI **7941**
RNS APPLICATIONS FOR INTERNAL INTERACTING SUB – AND SUPERSONIC FLOWS NLPN 93–833
11/19/1993 – 05/18/1997 FY97: $0 Total: $92,808
Prin. Invest.: S G RUBIN
Tech. Officer: LARC/J J KORTE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 852 UNIVERSITY OF CINCINNATI **7942**
OPTICAL WAVEGUIDE TECHNOLOGY UTILIZING SILICON SUB STRATES FOR SENSOR APPLICATIONS
12/23/1987 – 05/15/1996 FY97: –$576 Total: $404,424
Prin. Invest.: J T BOYD, H JACKSON
Tech. Officer: LERC/G BEHEIM
CASE Category: 13 – PHYSICS

NAG 3 1178 UNIVERSITY OF CINCINNATI **7943**
RNS PROCEDURES FOR UNSTEADY INLET FLOW
06/07/1990 – 12/31/1997 FY97: $0 Total: $189,232
Prin. Invest.: S G RUBIN, P K KHOSLA
Tech. Officer: LERC/T J BENSON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1472 UNIVERSITY OF CINCINNATI **7944**
PARALLELIZATION OF THE IMPLICIT RPLUS ALGORITHM
03/29/1993 – 06/30/1996 FY97: $0 Total: $61,214
Prin. Invest.: P D ORKWIS
Tech. Officer: LERC/D R REDDY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1706 UNIVERSITY OF CINCINNATI **7945**
A NOVEL SILICON MICROMACHINED INTEGERATED MCM THER AL MANAGEMENT SYSTEM
04/13/1995 – 04/12/1998 FY97: $0 Total: $274,668
Prin. Invest.: M J KAZMIERCZAK, F M GERNER, H T HENDERSON
Tech. Officer: LERC/K W BAKER, LERC/J CALOGEVAS
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1757 UNIVERSITY OF CINCINNATI **7946**
FABRICATION AND CHARACTERIZATION OF A LONG WAVE LE NGTH INP HBT–BASED OPTICAL RECEIVER
06/16/1995 – 12/31/1996 FY97: –$83 Total: $79,917
Prin. Invest.: K P ROENKER
Tech. Officer: LERC/R R KUNATH
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1765 UNIVERSITY OF CINCINNATI **7947**
EMERGING ETHHNIC ENGINEERS PROGRAM
07/07/1995 – 06/30/1998 FY97: $42,479 Total: $208,479
Prin. Invest.: E N PRATHER
Tech. Officer: LERC/S A MERRITT, LERC/J E BOYD
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 3 1774 UNIVERSITY OF CINCINNATI **7948**
OPTICAL WAVEGUIDE SENSORS FOR WIND TUNNEL INSTRUME NTATION
08/03/1995 – 11/30/1996 FY97: $0 Total: $150,000
Prin. Invest.: J T BOYD
Tech. Officer: LERC/G BEHEIM
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1963 UNIVERSITY OF CINCINNATI **7949**
SHOCK–ASSOCIATED NOISE IN JETS & NOZZLES
09/04/1996 – 01/31/1998 FY97: $40,322 Total: $60,322
Prin. Invest.: R R MANKBADI, A HAMED
Tech. Officer: LERC/L A POVINELLI
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1987 UNIVERSITY OF CINCINNATI **7950**
INVESTIGATION OF SIMPLEX NOZZLES FOR ADVANCED COMBUSTORS
11/06/1996 – 10/31/1999 FY97: $70,455 Total: $70,455
Prin. Invest.: S M JENG
Tech. Officer: LERC/R R TACINA
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 2003 UNIVERSITY OF CINCINNATI **7951**
DEVELOPMENT OF AN EXPERIMENTAL DATABASE TO VALIDAT E COMPRESSOR–FACE BOUNDARY CONDITIONS USED IN UNS
01/06/1997 – 12/31/1997 FY97: $69,888 Total: $69,888
Prin. Invest.: M SAJBEN
Tech. Officer: LERC/G L COLE, LERC/R A BLECH
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 9 874 UNIVERSITY OF CINCINNATI **7952**
ORBITAL ANALYSIS AND PROPULSION SYTEM SIZING FOR FUTURE SPACECRAFT
06/19/1996 – 02/28/1997 FY97: –$8 Total: $29,975
Prin. Invest.: D W WILLIAMS
Tech. Officer: JSC/K GRIMM
CASE Category: 13 – PHYSICS

NAG 9 924 UNIVERSITY OF CINCINNATI **7953**
OFF NOMINAL PERFORMANCE ANALYSIS OF FUTURE EVA MANEUVERING SYSTEMS
01/29/1997 – 11/02/1999 FY97: $59,876 Total: $59,876
Prin. Invest.: T W LEWIS
Tech. Officer: JSC/K W LEWIS
CASE Category: 41 – AERONAUTICAL ENGNR

NAGW 1407 UNIVERSITY OF CINCINNATI **7954**
UNIVERSITY SPACE ENGINEERING RESEARCH CENTER
08/17/1988 – 01/30/1998 FY97: $62,000 Total: $8,409,949
Prin. Invest.: L M GALES
Tech. Officer: HQ/S C HARTMAN
CASE Category: 49 – ENGINEERING, OTHER

NAGW 3307 UNIVERSITY OF CINCINNATI **7955**
NAGW–3307/UNIV CINCINATTI/ORDOVICIAN BIODIVERSITY: GEOGRAPHY AND ENVIRONMENT
12/31/1992 – 08/31/1997 FY97: $0 Total: $199,893
Prin. Invest.: A MILLER
Tech. Officer: HQ/J D RUMMEL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 4304 UNIVERSITY OF CINCINNATI **7956**
SPACE ADVANCED DESIGN PROGRAM
02/22/1995 – 10/31/1996 FY97: –$54 Total: $26,286
Prin. Invest.: L COOPER
Tech. Officer: HQ/A SMCGEE, HQ/G JOHNSTON
CASE Category: 49 – ENGINEERING, OTHER

NCC 2 950 UNIVERSITY OF CINCINNATI **7957**
ADVANCED TRAJECTORY ANALYSIS WITH APPLICATION TO A IR TRAFFIC CONTROL
05/17/1996 – 08/31/1997 FY97: $0 Total: $38,608
Prin. Invest.: G L SLATER
Tech. Officer: ARC/H N SWENSON, ARC/T J DAVIS
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5096 UNIVERSITY OF CINCINNATI **7958**
DEVELOPMENT OF A VORTICITY–VELOCITY NAVIER–STOKES FORMULATION FOR THE STUDY OF COMPRESSIBILITY EFFEC
08/18/1994 – 02/29/1996 FY97: –$724 Total: $27,848
Prin. Invest.: K N GHIA, U GHIA
Tech. Officer: ARC/D KWAK, ARC/S E ROGERS
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 3 252 UNIVERSITY OF CINCINNATI **7959**
DESIGN & DEVELOPMENT OF AN INTEGRATED OEIC RECEIVE R FOR A PHASED ARRAY ANTENNA
02/28/1992 – 09/30/1995 FY97: –$755 Total: $266,212
Prin. Invest.: K P ROENKER
Tech. Officer: LERC/R R KUNATH
CASE Category: 45 – ELECTRICAL ENGR

NCCW 35 UNIVERSITY OF CINCINNATI **7960**
TANK PRESSURE/NCCW35
02/16/1994 – 06/30/1997 FY97: $0 Total: $199,888
Prin. Invest.: J M ALBAYYARI
Tech. Officer: HQ/M NALL
CASE Category: 13 – PHYSICS

NGT 10014 UNIVERSITY OF CINCINNATI **7961**
NGT–10014/UNIV CINCINNATI; AEROSPACE ENGINEERING C URRICULUM FOR THE 21ST CENTURY
11/17/1993 – 09/30/1996 FY97: $0 Total: $74,999
Prin. Invest.: B K WALKER
Tech. Officer: HQ/L KEEFER
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 10031 UNIVERSITY OF CINCINNATI **7962**
A TRAINING PROPOSAL FOR UNIVERSITY SPACE ENGINEERI NG RESEARCH CENTER GRADUATE STUDENTS
12/16/1994 – 01/30/1998 FY97: $31,163 Total: $339,148
Prin. Invest.: L P COOPER
Tech. Officer: HQ/T R BRUNEEL
CASE Category: 43 – CHEMICAL ENGR

NGT 30321 UNIVERSITY OF CINCINNATI **7963**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/10/1995 – 03/31/1998 FY97: $0 Total: $44,000
Prin. Invest.: S ISLAM
Tech. Officer: HQ/A CJANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30326 UNIVERSITY OF CINCINNATI **7964**
GLOBAL CHANGE FELLOWSHIP PROGRAM
09/05/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: S ISLAM
Tech. Officer: HQ/G ASRAR, HQ/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 51234 UNIVERSITY OF CINCINNATI **7965**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/07/1994 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: V J KAPOOR
Tech. Officer: LERC/F MONTEGANI
CASE Category: 45 – ELECTRICAL ENGR

NGT 51320 UNIVERSITY OF CINCINNATI **7966**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/08/1994 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: B WALKER
Tech. Officer: LERC/F MONTEGANI
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51367 UNIVERSITY OF CINCINNATI **7967**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/16/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: S A KHAN
Tech. Officer: HQ/G LESANE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 51639 UNIVERSITY OF CINCINNATI **7968**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/08/1996 – 08/31/1997 FY97: $0 Total: $22,000
Prin. Invest.: D L RICHARDSON
Tech. Officer: HQ/D HOLLAND
CASE Category: 46 – MECHANICAL ENGR

NGT 1 52140 UNIVERSITY OF CINCINNATI **7969**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
06/26/1996 – 06/30/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: S K DURLAK
Tech. Officer: LARC/B E ANDERSON, LARC/J M HOELL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 2 52205 UNIVERSITY OF CINCINNATI **7970**
THE DEPARTURE PROBLEM IN AIR TRAFFIC MANAGEMENT: ANALYSIS CONTROL STRATEGIES & IMPLEMENTATION
09/14/1995 – 08/31/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: G L SLATER, M A BOLENDER
Tech. Officer: ARC/T J DAVIS, ARC/J ERZBERGER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 3 52324 UNIVERSITY OF CINCINNATI **7971**
DEVELOPMENT OF OBJECT ORIENTED SIMULATIONS FOR CON TROL OF DISTRIBUTED PARAMETER SYSTEMS
08/30/1996 – 02/28/1998 FY97: $0 Total: $22,000
Prin. Invest.: K MOORE
Tech. Officer: LERC/D MONTEGANI
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 30049 UNIVERSITY OF CINCINNATI **7972**
USE OF RAINGAGE AND RADAR MEASUREMENTS OF PRECIPIT CALIBRATION AND GROUND VALIDATION OF SATELLITE BA
09/06/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: S ISLAM
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30058 UNIVERSITY OF CINCINNATI **7973**
THIRD YEAR FUNDING: ANALYZING AND PARAMETERIZING HETEROGENEITY ON LAND SURFACE REPRESENTATIONS & RE
09/06/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: S ISLAM
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50040 UNIVERSITY OF CINCINNATI **7974**
A THEORY FOR THE EXACT INTEGRATION OF A REFERENCE L ATTITUDE PROGRAM FORMULATED AS PERTURBED JACOBI
08/15/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: P L RICHARDSON
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 8 52801 UNIVERSITY OF CINCINNATI **7975**
GRADSTUDENT RESEARCH PROGRAM
07/28/1995 – 07/31/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: K N GHIA
Tech. Officer: MSFC/P K MCCONNAUGHEY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1327 UNIVERSITY OF DAYTON **7976**
DETERMINATION OF OPERATIONAL AND SUPPORT REQUIRE- MENTS AND COSTS DURING CONCEPTUAL DESIGN OFSPACE
07/26/1991 – 12/31/1997 FY97: $54,116 Total: $366,227
Prin. Invest.: C E EBELING
Tech. Officer: LARC/W D MORRIS
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1391 UNIVERSITY OF DAYTON **7977**
EVAPORATION FROM A MENISCUS WITHIN A CAPILLARY TUB E IN MICROGRAVITY
12/23/1992 – 07/31/1996 FY97: $0 Total: $602,353
Prin. Invest.: K P HALLINAN, J ERVIN
Tech. Officer: LERC/R L THOMPSON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1919 UNIVERSITY OF DAYTON **7978**
A STUDY OF THE MICROSCALE FLUID PHYSICS IN THE NEA R CONTACT REGION OF AN EVAPORATING CAP MENISCUS
07/10/1996 – 07/08/1998 FY97: $131,878 Total: $267,351
Prin. Invest.: K P HALLINAN
Tech. Officer: LERC/J C DUH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 4575 UNIVERSITY OF DAYTON **7979**
INTERSTELLAR DIAMOND GRAINS:SYNTHETIC AND NATURAL
09/12/1997 – 06/30/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: D PHELPS
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 9 916 UNIVERSITY OF DAYTON **7980**
DEV PUBLIC DOMAIN FATIGUE CRACK FORMATION SW
12/13/1996 – 12/12/1998 FY97: $201,765 Total: $201,765
Prin. Invest.: D E TRITSCH
Tech. Officer: JSC/R FOREMAN
CASE Category: 11 – ASTRONOMY

NGT 51089 UNIVERSITY OF DAYTON **7981**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/02/1993 – 06/30/1996 FY97: –$13,048 Total: $29,202
Prin. Invest.: K P HALLINAN
Tech. Officer: HQ/D A HOLLAND
CASE Category: 46 – MECHANICAL ENGR

NGT 51207 UNIVERSITY OF DAYTON **7982**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/15/1994 – 07/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: T J KELLY
Tech. Officer: MSFC/F SIX
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1219 UNIVERSITY OF TOLEDO **7983**
COMPUTATION OF REACTING FLOWS IN COMBUSTION PROCES S
12/03/1990 – 02/14/1997 FY97: $0 Total: $475,000
Prin. Invest.: T G KEITH
Tech. Officer: LERC/R W CLAUS, LERC/E J MULARZ
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1230 UNIVERSITY OF TOLEDO **7984**
EULER/NAVIER STROKES SOLVERS APPLIED FOR ADVANCED PROPELLER CONFIGERATIONS
12/17/1990 – 12/20/1996 FY97: –$481 Total: $327,634
Prin. Invest.: T G KEITH, R SRIVASTAVA
Tech. Officer: LERC/D C JANETZKE, LERC/L J KIRALY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1234 UNIVERSITY OF TOLEDO **7985**
AEROELASTIC ANALYSIS USING VARIOUS CFD MODELS / 52 30
01/07/1991 – 12/21/1995 FY97: –$68 Total: $312,146
Prin. Invest.: T G KEITH, M A BAKHLE
Tech. Officer: LERC/A P KURKOU, LERC/L J KIRALY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1264 UNIVERSITY OF TOLEDO **7986**
COMPUTATIONAL SIMULATION OF COMPOSITE MATERIAL BEH AVIOR
03/26/1991 – 11/03/1996 FY97: $0 Total: $724,830
Prin. Invest.: S K MITAL
Tech. Officer: LERC/P L MURTHY, LERC/C C CHAMIS
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1307 UNIVERSITY OF TOLEDO **7987**
DETAILED AND REDUCED HYDROCARBON OXIDATION CHEMIST RY
11/19/1991 – 12/14/1996 FY97: $0 Total: $543,882
Prin. Invest.: K J DEWITT
Tech. Officer: LERC/M J RABINOWITZ, LERC/E A LEZBERG
CASE Category: 12 – CHEMISTRY

NAG 3 1501 UNIVERSITY OF TOLEDO **7988**
OSCILLATORY/CHAOTIC THERMOCAPILLARY FLOW INDUCED B Y RADIANT HEATING
05/20/1993 – 11/30/1996 FY97: $0 Total: $72,404
Prin. Invest.: K J DEWITT
Tech. Officer: LERC/R L THOMPSON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1576 UNIVERSITY OF TOLEDO **7989**
STUDY OF A HIGH VOLTAGE ION ENGINE POWER SUPPLY
02/28/1994 – 08/30/1996 FY97: –$1 Total: $77,180
Prin. Invest.: T J STUART, R J KING
Tech. Officer: LERC/J A HAMLEY
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1718 UNIVERSITY OF TOLEDO **7990**
VLSI IMPLEMTATION OF COMMUNICATIONS SYSTEMS
03/23/1995 – 03/22/1998 FY97: $65,391 Total: $185,391
Prin. Invest.: S C KWATRA, M M JAMALI
Tech. Officer: LERC/R E JONES
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1728 UNIVERSITY OF TOLEDO **7991**
FUZZY AND RADIAL BASIS FUNCTION MODELING OF COMPLE X PROCESSES
04/04/1995 – 09/30/1996 FY97: $0 Total: $30,000
Prin. Invest.: K CIOS
Tech. Officer: LERC/A VARY
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1750 UNIVERSITY OF TOLEDO **7992**
AN OBJECT–ORIENTED MODEL FOR SIMULATION
05/24/1995 – 06/30/1998 FY97: $50,024 Total: $136,137
Prin. Invest.: A AFJENT
Tech. Officer: LERC/G J FOLLEN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1758 UNIVERSITY OF TOLEDO **7993**
INVESTIGATION OF FIELD EMITTER ARRAY VACUUM MICROT RIODES FOR SPACE ELETRONICS APPLICATIONS
06/16/1995 – 12/15/1996 FY97: –$272 Total: $24,728
Prin. Invest.: V J KAPOOR, M A SMITH
Tech. Officer: LERC/V O HEINES
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1796 UNIVERSITY OF TOLEDO **7994**
NUMERICAL SIMULATION OF INTERNAL HEAT TRANSFER PHE NOMENA OCCURING DURING DEICING OF AIRCRAFTCOMPEN
10/06/1995 – 09/30/1996 FY97: $0 Total: $13,000
Prin. Invest.: K J DEWITT
Tech. Officer: LERC/M VARGAS
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1803 UNIVERSITY OF TOLEDO **7995**
DEVELOPMENT OF AN AEROELASTIC ANALYSIS INCLUDING A VISCOUS FLOW MODEL
01/23/1996 – 10/31/1997 FY97: $54,918 Total: $140,918
Prin. Invest.: T G KEITH
Tech. Officer: LERC/A KURKOV
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1946 UNIVERSITY OF TOLEDO **7996**
KNOWLEDGE DISCOVERY PROCESS FOR CHARACTERIZATION O F MATERIALS FAILURE MECHANISM
08/09/1996 – 02/28/1998 FY97: $41,171 Total: $46,171
Prin. Invest.: K J CIOS
Tech. Officer: LERC/G Y BAAKUNI
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1967 UNIVERSITY OF TOLEDO **7997**
BANDGAP ENGINEERING AND CIRCUIT DESIGN FOR LOW TEM PERATURE SPACE–BORNE POWER ELECTRONICS
09/07/1996 – 09/02/1997 FY97: $45,386 Total: $55,386
Prin. Invest.: Y J KAPOOR, M A SMITH
Tech. Officer: LERC/R L PATTERSON, LERC/J E DICKMAN
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 2041 UNIVERSITY OF TOLEDO **7998**
INVESTIGATION OF A METHOD TO REDUCE CAVITATION DAM AGE IN DIESEL ENGINE BEARINGS
04/29/1997 – 10/31/1997 FY97: $40,000 Total: $40,000
Prin. Invest.: T G KEITH, JR.
Tech. Officer: LERC/D E BREWE
CASE Category: 13 – PHYSICS

NAG 5 3248 UNIVERSITY OF TOLEDO **7999**
THE EFFECT OF ROTATION ON STELLAR WINDS: ASYMMETRI ES AND BIPOLAR STRUCTURES IN CIRCUMS
10/09/1996 – 08/31/1997 FY97: $100,000 Total: $100,000
Prin. Invest.: J E BJORKMAN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3367 UNIVERSITY OF TOLEDO **8000**
RADIATIVE TRANSFER ANALYSIS OF DUSTY ASTRONOMICAL SYSTEMS
08/28/1996 – 04/30/1997 FY97: $0 Total: $94,078
Prin. Invest.: A N WITT
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3447 UNIVERSITY OF TOLEDO **8001**
EFFECTS OF ROTATION AND REVISED IONIZATION BALANCE MASS–LOSS RATES FOR B STARS
10/10/1996 – 10/14/1997 FY97: $50,000 Total: $50,000
Prin. Invest.: K BJORKMAN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3790 UNIVERSITY OF TOLEDO **8002**
OPTICAL PROPERTIES OF CARBONACEOUS GRAIN MANTLE MA PURITIES
03/10/1997 – 02/28/1998 FY97: $65,651 Total: $65,651
Prin. Invest.: D N WITT
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 4338 UNIVERSITY OF TOLEDO **8003**
NEAR–IR EMISSION AND ABSORPTION CHARACTERISTICS OF MANTLE MATERIALS
04/21/1997 – 03/31/1998 FY97: $52,000 Total: $52,000
Prin. Invest.: D N WITT
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 4957 UNIVERSITY OF TOLEDO **8004**
THE EVOLUTION OF INTERSTELLAR GAS – MASSIVE STARS
06/27/1997 – 06/30/1998 FY97: $77,000 Total: $77,000
Prin. Invest.: S R FEDERMAN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 8 1380 UNIVERSITY OF TOLEDO **8005**
FOR RESEARCH ENTITLED "SEARCHING FOR THE BEST PROTEIN CRYSTALS"
06/19/1997 – 11/30/1997 FY97: $52,000 Total: $52,000
Prin. Invest.: G BORGOTAHL
Tech. Officer: MSFC/C TALLEY, MSFC/M VLASSE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3168 UNIVERSITY OF TOLEDO **8006**
RADIATIVE TRANSFER ANALYSIS OF DUSTY ASTRONOMICAL SYSTEMS
08/11/1992 – 09/30/1997 FY97: $0 Total: $350,704
Prin. Invest.: A WITT
Tech. Officer: HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 3840 UNIVERSITY OF TOLEDO **8007**
NAGW–3840/B UNIV. TOLEDO: "OSCILLATOR STRENGTHS FO R ULTRAVIOLET ATOMIC TRANSITIONS"
12/21/1993 – 09/30/1997 FY97: $0 Total: $201,000
Prin. Invest.: S R FEDERMAN
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NCC 2 5215 UNIVERSITY OF TOLEDO **8008**
EVALUATION OF CATALYTIC WET OXIDATION FOR THE ULTI MATE CONVERSION OF SOLID WASTES
05/13/1997 – 06/30/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: M ABRAHAM
Tech. Officer: ARC/J FISHER
CASE Category: 43 – CHEMICAL ENGR

NCC 2 5220 UNIVERSITY OF TOLEDO **8009**
OXYGEN SCRUBBING IN PLANT GROWTH CHAMBERS USING SOLID OXIDE ELECTROLYZERS
06/11/1997 – 11/30/1997 FY97: $42,154 Total: $42,154
Prin. Invest.: K R SRIDHAR
Tech. Officer: ARC/H W JONES
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 3 126 UNIVERSITY OF TOLEDO **8010**
MICROSTRIP ANTENNA ARRAYS W/ PARASITIC ELEMENTS
01/30/1989 – 04/14/1996 FY97: –$3,171 Total: $206,630
Prin. Invest.: K F LEE
Tech. Officer: LERC/R O LEE
CASE Category: 45 – ELECTRICAL ENGR

NCC 3 229 UNIVERSITY OF TOLEDO **8011**
LOW REYNOLDS NUM MULTI–TIME–SCALE TURB MODEL & ITS APPL TO UNSTEADY & TRNSITIONARY TURBULENT FLOWS
08/29/1991 – 02/12/1996 FY97: –$1 Total: $374,360
Prin. Invest.: K J DEWITT, S W KIM
Tech. Officer: LERC/R M STUBBS, LERC/J M ABBOTT
CASE Category: 42 – ASTRONAUTICAL ENGR

NCC 3 260 UNIVERSITY OF TOLEDO **8012**
DEVELOPMENT OF SILICON–GERMANIUM TECHNOLOGY FOR MI CROWAVE SENSING APPLICATIONS
03/27/1992 – 09/30/1995 FY97: –$9,468 Total: $166,007
Prin. Invest.: K J DE WITT, P G YOUNG
Tech. Officer: LERC/R A MENU, LERC/S ALTEROVITZ
CASE Category: 45 – ELECTRICAL ENGR

NCC 3 288 UNIVERSITY OF TOLEDO **8013**
ENVIRONMENTAL EFFECTS ON BOUNDARY LAYERS TRANSITIO N
12/11/1992 – 12/06/1997 FY97: $85,959 Total: $381,538
Prin. Invest.: K J DEWITT, K H SOHN
Tech. Officer: LERC/F F SIMON
CASE Category: 46 – MECHANICAL ENGR

NCC 3 291 UNIVERSITY OF TOLEDO **8014**
EFFECT OF CAVITATION ON JOURNAL BEARING DYNAMIC CH ARACTERIS-TICS
12/20/1992 – 02/14/1997 FY97: -$5,142 Total: $270,159
Prin. Invest.: T G KEITH
Tech. Officer: LERC/D E BREWE, LERC/G A BOBULA
CASE Category: 46 – MECHANICAL ENGR

NCC 3 388 UNIVERSITY OF TOLEDO **8015**
EFFICIENT AEROELASTIC ANALYSIS OF PROPULSION TURBO MACHINERY
01/04/1995 – 10/31/1996 FY97: $0 Total: $92,001
Prin. Invest.: T KEITH
Tech. Officer: LERC/J M LUCERO, LERC/G L STESKO
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 3 436 UNIVERSITY OF TOLEDO **8016**
HYDRONAMIC ANALYSES AND EVALUATION OF NEW FLUID BE ARING CONCEPTS
11/15/1995 – 03/18/1997 FY97: $72,500 Total: $130,007
Prin. Invest.: T G KEITH
Tech. Officer: LERC/J F WALKER
CASE Category: 46 – MECHANICAL ENGR

NCC 3 446 UNIVERSITY OF TOLEDO **8017**
AEROELASTIC STABLITY AND RESPONSE OF ROTATING STRUCTURES
01/08/1996 – 11/30/1997 FY97: $70,000 Total: $166,000
Prin. Invest.: T G KEITH
Tech. Officer: LERC/O MEHMED
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 3 458 UNIVERSITY OF TOLEDO **8018**
TRIBOLOGY STUDIES AT THE UNIVERSITY OF TOLEDO
03/19/1996 – 06/30/1997 FY97: $0 Total: $16,440
Prin. Invest.: T G KEITH
Tech. Officer: LERC/R L FUSARO
CASE Category: 46 – MECHANICAL ENGR

NCC 3 513 UNIVERSITY OF TOLEDO **8019**
IMPROVED MODEL FOR THE OXIDATIVE PYROLYSIS OF HYDROCARBON FUELS
11/06/1996 – 10/31/1999 FY97: $105,736 Total: $105,736
Prin. Invest.: K J DEWITT
Tech. Officer: LERC/K P KUNDU
CASE Category: 12 – CHEMISTRY

NCC 3 523 UNIVERSITY OF TOLEDO **8020**
COMPUTATION OIF REACTING FLOWS IN COMBUSTION PROCE SSES USING UNSTRUCTURED GRIDS
12/26/1996 – 11/30/1997 FY97: $106,186 Total: $106,186
Prin. Invest.: T G KEITH
Tech. Officer: LERC/R STUBBS
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 3 524 UNIVERSITY OF TOLEDO **8021**
COMPUTATIONAL SIMULATION OF COMPOSITE BEHAVIOR
12/26/1996 – 11/30/1997 FY97: $103,190 Total: $103,190
Prin. Invest.: T G KEITH
Tech. Officer: LERC/P MURTHY
CASE Category: 49 – ENGINEERING, OTHER

NCC 3 527 UNIVERSITY OF TOLEDO **8022**
AEROELASTIC ANALYSIS FOR AEROPROPULSION APPLICATIO NS
12/26/1996 – 11/18/1998 FY97: $76,668 Total: $76,668
Prin. Invest.: T G KEITH, JR.
Tech. Officer: LERC/O MEHMED, LERC/G L STEFKO
CASE Category: 46 – MECHANICAL ENGR

NCC 3 553 UNIVERSITY OF TOLEDO **8023**
EXPERIMENTAL EVALUATION OF JOURNAL BEARING STABILI TY & NEW GAS WAVE BEARING MATERIAL
04/16/1997 – 10/31/1997 FY97: $72,187 Total: $72,187
Prin. Invest.: T G KEITH
Tech. Officer: LERC/M P PROCTOR
CASE Category: 46 – MECHANICAL ENGR

NCC 3 558 UNIVERSITY OF TOLEDO **8024**
MAGNETIC FLUID FRICTION AND WEAR BEHAVIOR
05/06/1997 – 11/17/1997 FY97: $15,000 Total: $15,000
Prin. Invest.: T G KEITH
Tech. Officer: LERC/R L FUSARO
CASE Category: 46 – MECHANICAL ENGR

NCC 3 565 UNIVERSITY OF TOLEDO **8025**
MARS PATHFINDER WHEEL ABRASION EXPERIMENT GROUND
07/01/1997 – 01/31/1998 FY97: $16,000 Total: $16,000
Prin. Invest.: T G KEITH
Tech. Officer: LERC/R L FUSARO
CASE Category: 46 – MECHANICAL ENGR

NCC 8 134 UNIVERSITY OF TOLEDO **8026**
INVESTIGATION OF THE GROWTH MECHANISM OF TETRAGONAL LYSO-ZYME CRYSTALS
03/13/1997 – 03/12/1998 FY97: $78,879 Total: $78,879
Prin. Invest.: A NADARAJAH
Tech. Officer: MSFC/M L PUSEY
CASE Category: 12 – CHEMISTRY

NCC 3 495 WILBERFORCE UNIVERSITY **8027**
WILBERFORCE RITC: TRANSITION TO IDEPENDENCE
08/09/1996 – 06/13/1997 FY97: $0 Total: $75,000
Prin. Invest.: H SMITHERMAN, R L GLENN
Tech. Officer: LERC/A F HEPP
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 3 535 WILBERFORCE UNIVERSITY **8028**
WILBERFORCE POWER TECHNOLOGY IN EDUCATION PROGRAM
01/27/1997 – 12/06/1999 FY97: $100,000 Total: $100,000
Prin. Invest.: H C SMITHERMAN
Tech. Officer: LERC/A F HEPP
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 2036 WITTENBERG UNIVERSITY **8029**
STATIC & DYNAMICS CHARACTERIZATION OF DEVELOPMENTA L 4H-SIC THYRISTORS
04/16/1997 – 09/11/1997 FY97: $23,888 Total: $23,888
Prin. Invest.: A J FRASCA
Tech. Officer: LERC/G E SCHWARZE
CASE Category: 13 – PHYSICS

NAG 5 3535 WITTENBERG UNIVERSITY **8030**
THE ABUNDANCES OF THE IRON GROUP ELEMENTS IN EARLY
01/28/1997 – 12/14/1997 FY97: $8,199 Total: $8,199
Prin. Invest.: J A GRIGSBY
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 3 1489 WRIGHT STATE UNIVERSITY **8031**
RELIABILITY BASED STRUCTRUAL OPTIMIZATION
04/16/1993 – 11/30/1997 FY97: $40,000 Total: $222,000
Prin. Invest.: R GRANDHI
Tech. Officer: LERC/D A HOPKINS
CASE Category: 46 – MECHANICAL ENGR

NAG 3 2039 WRIGHT STATE UNIVERSITY **8032**
QUASI-THREE DIMENSIONAL CASCADE AEROSYNAMIC ANALYS IS FOR A TURBOMACHINERY COMPONENT DESIGN SYSTEM
04/23/1997 – 11/10/1997 FY97: $15,090 Total: $15,090
Prin. Invest.: J M WOLFF
Tech. Officer: LERC/O MEHMED
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 4188 WRIGHT STATE UNIVERSITY **8033**
MODEL STUDIES OF EXCITED STATES OF N2 AND N2+ IN T IONOSPHERE
03/27/1997 – 03/31/1998 FY97: $66,894 Total: $66,894
Prin. Invest.: D L FOX
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAGW 5229 WRIGHT STATE UNIVERSITY **8034**
RESEARCH (MTGCM)
10/09/1996 – 09/30/1997 FY97: $18,880 Total: $18,880
Prin. Invest.: J L FOX
Tech. Officer: HQ/J BERGSTRALH
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30091 WRIGHT STATE UNIVERSITY **8035**
AEROSPACE MEDICINE TRAINING PROGRAM
09/11/1997 – 12/31/1997 FY97: $100,000 Total: $100,000
Prin. Invest.: S R MOHLER
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 59 – LIFE SCIENCE, OTHER

NGT36 24790 WRIGHT STATE UNIVERSITY **8036**
AEROSPACE MEDICINE RESIDENCY PROGRAM
07/01/1978 – 12/31/1997 FY97: $0 Total: $7,598,151
Prin. Invest.: S MOHLER
Tech. Officer: HQ/F D EVANS, HQ/A E NICOGOSSIAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 8 1108 YOUNGSTOWN STATE UNIVERSITY **8037**
JOVE
10/21/1994 – 05/31/1997 FY97: $0 Total: $112,797
Prin. Invest.: J ALAM, R BEIERSDORFER, D ROST
Tech. Officer: MSFC/F SIX
CASE Category: 99 – MULTI INTERDISCPL, OTHER

OKLAHOMA

NAG 3 1613 OKLAHOMA STATE UNIVERSITY **8038**
LIGHT SCATTERING STUDIES OF RELATIVE MOTIONS OF SOLID PARTICLES IN TURBULENT FLOWS
07/01/1994 – 08/31/1997 FY97: –$5,219 Total: $134,781
Prin. Invest.: P TONET, W I GOLDBURG
Tech. Officer: LERC/D F CHAO
CASE Category: 13 – PHYSICS

NAG 3 1624 OKLAHOMA STATE UNIVERSITY **8039**
COLLIODS AND NUCLEATION
06/24/1994 – 09/30/1997 FY97: –$11,874 Total: $88,126
Prin. Invest.: B J ACKERSON
Tech. Officer: LERC/G A ZIMMERLI
CASE Category: 13 – PHYSICS

NAG 3 1852 OKLAHOMA STATE UNIVERSITY **8040**
STUDIES OF PARTICLES SEDIMENTATION BY NOVEL SCATTE RING TECHHNIQUE
05/01/1996 – 04/30/2000 FY97: $67,000 Total: $167,000
Prin. Invest.: O TONG, B ACKERSON, NONE
Tech. Officer: LERC/B SINGH
CASE Category: 13 – PHYSICS

NAG 4 110 OKLAHOMA STATE UNIVERSITY **8041**
ACCELERATED ESTIMATES OF AEROSERVOELASTIC PARAMETERS USING COMPUTATIONAL FLUID DYNAMICS
01/31/1997 – 12/31/1997 FY97: $44,980 Total: $44,980
Prin. Invest.: A S ARENA, JR.
Tech. Officer: DFRC/L S VOELKER
CASE Category: 41 – AERONAUTICAL ENGNR

NASW 4516 OKLAHOMA STATE UNIVERSITY **8042**
NASW-4516/OKLAHOMA STATE UNIV/OPERATION & MANAGEME NTOF THE NASA AEROSPACE EDUCATION SERVICES PROGRA
07/11/1990 – 09/30/1995 FY97: –$302,584 Total: $28,362,056
Prin. Invest.: K WIGGINS, N EHRLICH
Tech. Officer: HQ/L B BILBROUGH
CASE Category: 99 – MULTIINTERDISCPL, OTHER

NASW 5043 OKLAHOMA STATE UNIVERSITY **8043**
OPERATION OF AEROSPACE EDUCATION SERVICES PROGRAM
09/25/1995 – 09/30/1998 FY97: $4,539,466 Total: $13,875,869
Prin. Invest.: K WIGGINS
Tech. Officer: HQ/L BILBROUGH
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 2 5105 OKLAHOMA STATE UNIVERSITY **8044**
COMPUTATIONAL AEROSERVOELASTIC ANALYSIS WITH AN EU LER-BASED UNSTEADY FLOW SOLVER
10/28/1994 – 11/01/1996 FY97: –$900 Total: $79,073
Prin. Invest.: A S ARENA
Tech. Officer: DFRC/K K GUPTA
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 5 185 OKLAHOMA STATE UNIVERSITY **8045**
TEACHING FROM SPACE PROGRAM
04/03/1997 – 11/30/1997 FY97: $736,157 Total: $736,157
Prin. Invest.: K E WIGGINS
Tech. Officer: GSFC/P L MOUNTJOY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCCW 5 OKLAHOMA STATE UNIVERSITY **8046**
NASA'S TEACHER IN SPACE PROJECT
10/16/1985 – 09/30/1997 FY97: $0 Total: $6,502,506
Prin. Invest.: K WIGGINS
Tech. Officer: HQ/L BILBROUGH
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 4 52402 OKLAHOMA STATE UNIVERSITY **8047**
COMPUTATIONAL AEROSERVOELASTIC ANALYSIS OF HYPERSONIC VEHICLE CONFIGURATIONS
07/16/1996 – 07/31/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: D S ARENA, JR.
Tech. Officer: DFRC/K GUPTA, DFRC/L S VOELKER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 6231 ORAL ROBERTS UNIVERSITY **8048**
THE DEVELOPMENTOF AN EXPERIMENTAL APPARATUS TO TES SPINNING SPACECRAFT UNDER THRUST.
08/19/1997 – 07/31/1998 FY97: $27,000 Total: $27,000
Prin. Invest.: T H STENGLE
Tech. Officer: GSFC/T H STENGLE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1820 UNIVERSITY OF OKLAHOMA – NORMAN **8049**
EFFICIENT STRUCTURAL OPTIMIZATION
03/13/1996 – 09/12/1997 FY97: $0 Total: $7,443
Prin. Invest.: D G STRIZ
Tech. Officer: LARC/J M HOUSNER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1594 UNIVERSITY OF OKLAHOMA – NORMAN **8050**
EFFECTS OF ENERGY RELEASE ON NEAR FIELD FLOW STRUC TURE OF GAS JETS
06/02/1994 – 06/01/1998 FY97: $100,000 Total: $394,000
Prin. Invest.: A K AGRAWAL, S R GOLLAHALLI
Tech. Officer: LERC/H D ROSS
CASE Category: 46 – MECHANICAL ENGR

NAG 5 3214 UNIVERSITY OF OKLAHOMA – NORMAN **8051**
X–RAYS FROM THE CENTRAL RADIO SOURCE IN NGC 7331
04/19/1996 – 10/31/1997 FY97: $0 Total: $7,523
Prin. Invest.: W ROMANISHIN
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 3505 UNIVERSITY OF OKLAHOMA – NORMAN **8052**
MULTIWAVELENGTH STUDIES OF SUPERNOVAE
11/25/1996 – 09/30/1997 FY97: $50,000 Total: $50,000
Prin. Invest.: E A BARON
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 8 1271 UNIVERSITY OF OKLAHOMA – NORMAN **8053**
MICROGRAVITY IMPRENATION OF FIBER PREFORMS
05/02/1996 – 05/15/1998 FY97: $50,000 Total: $150,000
Prin. Invest.: M C ALTAN, B GRADY, F C LAI
Tech. Officer: MSFC/D R WOODARD, MSFC/R W ALLEN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 2999 UNIVERSITY OF OKLAHOMA – NORMAN **8054**
QUANTATIVE ANALYSIS OF SUPERNOVA ULTRAVIOLET SPECT RA
03/10/1992 – 01/31/1996 FY97: –$1 Total: $235,999
Prin. Invest.: D R BRANCH
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 4551 UNIVERSITY OF OKLAHOMA – NORMAN **8055**
ENVIRONMENTAL REMOTE SENSING, GIS AND OKLAHOMA MESONET
06/30/1995 – 03/31/1996 FY97: $0 Total: $75,000
Prin. Invest.: M MORRISSEY
Tech. Officer: HQ/A S MCGEE, HQ/E T SCHWARTZ
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 3 26957 UNIVERSITY OF OKLAHOMA – NORMAN **8056**
ACTS PROPAGATION EXPERIMENTS
05/13/1993 – 03/31/1998 FY97: $96,270 Total: $412,307
Prin. Invest.: R K CRANE
Tech. Officer: LERC/R J GUNDERMAN
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 5 171 UNIVERSITY OF OKLAHOMA – NORMAN **8057**
TO SUPPORT RESEARCH UNDER THE EXPERIMENTAL PROGRAM COMPETITIVE RESEARCH
12/16/1996 – 11/14/1997 FY97: $500,000 Total: $500,000
Prin. Invest.: S DUCA
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 30308 UNIVERSITY OF OKLAHOMA – NORMAN **8058**
GLOBAL CHANGE FELLOWSHIP AWARD
09/12/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: P J MCCANN
Tech. Officer: HQ/M LUTHER, HQ/G ASRAR
CASE Category: 45 – ELECTRICAL ENGR

NGT 40052 UNIVERSITY OF OKLAHOMA – NORMAN **8059**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
09/03/1991 – 09/30/1997 FY97: $0 Total: $1,074,863
Prin. Invest.: K L HOVING
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51110 UNIVERSITY OF OKLAHOMA – NORMAN **8060**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/22/1993 – 07/31/1996 FY97: $0 Total: $44,000
Prin. Invest.: R A KLINE
Tech. Officer: LARC/E PRIOR
CASE Category: 46 – MECHANICAL ENGR

NGT 5 30103 UNIVERSITY OF OKLAHOMA – NORMAN **8061**
THIRD YEAR: "NEW TUNABLE DIODE LASERS FOR MOLECUL
09/17/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: P J MCCANN
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40013 UNIVERSITY OF OKLAHOMA – NORMAN **8062**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
01/30/1997 – 02/28/1998 FY97: $170,000 Total: $170,000
Prin. Invest.: V DUCA
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 1005 UNIVERSITY OF TULSA **8063**
JOVE
03/22/1994 – 06/30/1997 FY97: $0 Total: $161,811
Prin. Invest.: L DUNCAN
Tech. Officer: MSFC/F SIX
CASE Category: 12 – CHEMISTRY

NCC 2 5151 UNIVERSITY OF TULSA **8064**
CATALYTIC WET OXIDQTION IN A MONOLITY REACTOR FOR THE DESTRUCTION OF SWOLID WASTES
08/07/1995 – 07/31/1997 FY97: $0 Total: $40,000
Prin. Invest.: M ABRAHAM
Tech. Officer: ARC/J FISHER
CASE Category: 49 – ENGINEERING, OTHER

NCC 3 338 UNIVERSITY OF TULSA **8065**
RESIDUAL STRESS MEASUREMENTS 7 DEBONDING ANALYSIS OF THERMAL BARRIER COATINGS
02/17/1994 – 11/30/1997 FY97: $9,999 Total: $81,978
Prin. Invest.: E F RYBICKI, J R SHADLEY
Tech. Officer: LERC/W J BRINDUEY, LERC/R A MILLER
CASE Category: 47 – METAL & MATERIALS ENGR

OREGON

NCC 2 811 OREGON GRADUATE INST OF SCIENCE & TECH **8066**
PERCEPTION–BASED SENSOR FUSION FOR AN AUGMENTED VI SION SYSTEM
07/16/1993 – 08/31/1998 FY97: $106,515 Total: $676,674
Prin. Invest.: M PAVEL
Tech. Officer: ARC/A J AHUMADA, ARC/C H NULL
CASE Category: 69 – PSYCHOLOGY, OTHER

NGT 8 52803 OREGON GRADUATE INST OF SCIENCE & TECH **8067**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/28/1995 – 08/01/1998 FY97: $0 Total: $44,000
Prin. Invest.: U S RAO GUDIMETLA
Tech. Officer: MSFC/R W ROOD
CASE Category: 13 – PHYSICS

NAGW 3798 OREGON HEALTH SCIENCES UNIVERSITY **8068**
A GRAVITY SENSITIVE PERIOD DURING FROG OOLYTE MATURATION
11/30/1993 – 08/31/1996 FY97: $0 Total: $149,997
Prin. Invest.: M DANILCHIK
Tech. Officer: HQ/T W HALSTEAD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 2 934 OREGON HEALTH SCIENCES UNIVERSITY **8069**
CA2+ METABOLISM & VASCULAR FUNCTION AFTER SPACE FL IGHT
09/21/1995 – 06/30/1998 FY97: $165,528 Total: $555,528
Prin. Invest.: D A MCCARRON, D C HATTON
Tech. Officer: ARC/D A REISS–BUBENHEIM, ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 1 1263 OREGON STATE UNIVERSITY **8070**
CHARACTERIZATION OF CLOUDS AND ANISOTROPY OF EMITTED AND REFLECTED RADIANCES AS PART OF CERES
05/07/1991 – 10/31/1997 FY97: $112,988 Total: $738,015
Prin. Invest.: J A COAKLEY
Tech. Officer: LARC/J W YOUNGBLOOD, LARC/B A WIELICKI
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1620 OREGON STATE UNIVERSITY **8071**
PROGRESSIVE DAMAGE MODELING IN COMPOSITE SHELL STRUCTURES
04/19/1994 – 06/30/1996 FY97: –$263 Total: $107,590
Prin. Invest.: T C KENNEDY
Tech. Officer: LARC/J H STARNES, LARC/D R AMBUR
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 875 OREGON STATE UNIVERSITY **8072**
AN AGENT–BASED COCKPIT TASK MANAGEMENT SYSTEM
12/30/1993 – 10/31/1997 FY97: $81,274 Total: $445,247
Prin. Invest.: K H FUNK II
Tech. Officer: ARC/K M CORKER, ARC/F A PALMER III
CASE Category: 69 – PSYCHOLOGY, OTHER

NAG 2 1123 OREGON STATE UNIVERSITY **8073**
ESTABLISHING STANDARDS FOR HPC SYSTEMS SOFTWARE & TOOLS
03/14/1997 – 02/28/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: C M PANCAKE
Tech. Officer: ARC/L B HOFMAN, ARC/W J FEIEREISEN
CASE Category: 22 – COMPUTER SCIENCE

NAG 2 1143 OREGON STATE UNIVERSITY **8074**
NETWORK FOR EDUCATION & RESEARCH IN OREGON (NERO)
07/17/1997 – 06/30/1998 FY97: $450,000 Total: $450,000
Prin. Invest.: R D DRYDEN, E T REYNALES
Tech. Officer: ARC/M J LEON
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2300 OREGON STATE UNIVERSITY **8075**
FLUXES OVER INHOMOGENEOUS SURFACES IN BOREAS
06/30/1993 – 07/14/1998 FY97: $35,000 Total: $280,000
Prin. Invest.: L MAHRT
Tech. Officer: GSFC/F G HALL, GSFC/P SELLERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2301 OREGON STATE UNIVERSITY **8076**
FROM MICROSCALE TO MESOSCALE: SNOWMELT, SOIL MOIS TURE, AND EVAPOTRANSPIRATION FROM DISTRIBUTED. .
06/30/1993 – 07/14/1997 FY97: $0 Total: $198,735
Prin. Invest.: D MARKS
Tech. Officer: GSFC/F G HALL, GSFC/P SELLERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2377 OREGON STATE UNIVERSITY **8077**
COUPLED ATMOSPHERIC–FOREST CANOPY–SOIL PROFILE MON ITORING AND SIMULATION
09/30/1993 – 09/30/1997 FY97: $0 Total: $318,349
Prin. Invest.: R H CUENCA
Tech. Officer: GSFC/F G HALL, GSFC/P SELLERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3963 OREGON STATE UNIVERSITY **8078**
SUMMER SCHOOL IN DATA ASSIMILATION AND INVERSE MET
02/18/1997 – 01/31/1998 FY97: $34,000 Total: $34,000
Prin. Invest.: D F BENNET
Tech. Officer: GSFC/B DOUGLAS
CASE Category: 33 – OCEANOGRAPHY

NAG 5 4069 OREGON STATE UNIVERSITY **8079**
SAR–BASED STRUCTURAL MAPPING OF THE TRANSANTARCTIC
04/12/1997 – 02/28/1998 FY97: $46,692 Total: $46,692
Prin. Invest.: D LEVY
Tech. Officer: GSFC/R H THOMAS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4432 OREGON STATE UNIVERSITY **8080**
THE TOPOLOGY OF OCEAN CIRCULATION
04/17/1997 – 06/30/1998 FY97: $53,990 Total: $53,990
Prin. Invest.: A F BENNET
Tech. Officer: GSFC/B C DOUGLAS
CASE Category: 33 – OCEANOGRAPHY

NAG 5 4433 OREGON STATE UNIVERSITY **8081**
EVALUATING ECOSYSTEM MODEL PREDICTIONS OF CO2 & WA ACROSS THE OREGON TRANSECT WITH FLUX MEASUREMENTS
04/23/1997 – 03/31/1998 FY97: $198,086 Total: $198,086
Prin. Invest.: D H UNSWORTH
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4542 OREGON STATE UNIVERSITY **8082**
40 AR/39 AR INCREMENTAL HEATING AGES OF SUBMILLIGR IMPACT MELT ROCKS USING A CONTINUOUS LASER SYSTEM
05/06/1997 – 05/31/1998 FY97: $37,504 Total: $37,504
Prin. Invest.: D DALRYMPLE
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4816 OREGON STATE UNIVERSITY **8083**
TITLE: LOCAL VALIDATION OF GLOBAL ESTIMATE OF BIO SYNTHESIS AND SCALING METHODS ACROSS SEVERAL MAJO
06/26/1997 – 09/30/1998 FY97: $118,288 Total: $118,288
Prin. Invest.: D COHEN
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4947 OREGON STATE UNIVERSITY **8084**
"COUPLED ATMOSPHERE/OCEAN PROCESSES & PRIMARY PROD IN THE SOUTHERN OCEAN"
06/23/1997 – 06/30/1998 FY97: $825,000 Total: $825,000
Prin. Invest.: M R ABBOTT
Tech. Officer: GSFC/J A YODER
CASE Category: 33 – OCEANOGRAPHY

NAG 5 4960 OREGON STATE UNIVERSITY **8085**
A HIGH–RESOLUTION SURVEY OF THE DISK OF M31
06/27/1997 – 06/30/1998 FY97: $1,425 Total: $1,425
Prin. Invest.: F A PRIMINI
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 6156 OREGON STATE UNIVERSITY **8086**
EFFECT OF OCEAN TIDES ON THE LONG TERM ORBITAL AND OF THE EARTH–MOON SYSTEM
09/11/1997 – 09/14/1998 FY97: $20,000 Total: $20,000
Prin. Invest.: G D EGBERT
Tech. Officer: GSFC/B BILLS
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 6242 OREGON STATE UNIVERSITY **8087**
MODELING CARBON DYNAMICS AND THEIR ECONOMIC IMPLIC REGIONS: PACIFIC NORTHWESTERN USA AND NORTHWESTER
08/19/1997 – 02/28/1999 FY97: $295,000 Total: $295,000
Prin. Invest.: D E HARMON
Tech. Officer: GSFC/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6290 OREGON STATE UNIVERSITY **8088**
COLLABORATIVE RESEARCH: SCALING THEORIES OF 3–D GE VER NET-WORKS
08/29/1997 – 05/31/1998 FY97: $32,804 Total: $32,804
Prin. Invest.: E WAYMIRE
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6354 OREGON STATE UNIVERSITY **8089**
OBSERVATIONS AND MODELING OF THE TRANSIENT GENERAL PACIFIC OCEAN
09/26/1997 – 08/31/1998 FY97: $118,990 Total: $118,990
Prin. Invest.: D B CHELTON
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 2445 OREGON STATE UNIVERSITY **8090**
RESEARCH OF THE ATMOSPHERE OF MARS
04/02/1991 – 06/30/1997 FY97: $0 Total: $469,827
Prin. Invest.: J R BARNES
Tech. Officer: HQ/W QUAIDE
CASE Category: 11 – ASTRONOMY

NAGW 2475 OREGON STATE UNIVERSITY **8091**
SATELLITE ESTIMATED BIOLOGICAL PHYSICAL COUPLING I N EASTERN BOUNDARY CURRENTS
09/01/1991 – 12/31/1997 FY97: $115,000 Total: $624,714
Prin. Invest.: P T STRUB
Tech. Officer: HQ/D ADAMEC, HQ/R A SCHIFFER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3510 OREGON STATE UNIVERSITY **8092**
WIND–DRIVEN VARIABILITY ON THE SOUTHERN HEMISPHERE OCEANS
04/09/1993 – 12/31/1995 FY97: $0 Total: $375,532
Prin. Invest.: D B CHILTON
Tech. Officer: HQ/D ADAMEC
CASE Category: 33 – OCEANOGRAPHY

NAGW 3580 OREGON STATE UNIVERSITY **8093**
STUDY OF INHERENT OPTICAL PROPERTIES IN RELATION T O REMOTELY SENSED RADIANCE
05/25/1993 – 03/01/1997 FY97: $123,384 Total: $408,612
Prin. Invest.: R ZANEVELD
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 33 – OCEANOGRAPHY

NAGW 3716 OREGON STATE UNIVERSITY **8094**
ANALYSIS OF LAZY-2 GRAVITROPIC RESPONSE MUTANT OF TOMATO
08/19/1993 – 06/30/1997 FY97: $0 Total: $285,078
Prin. Invest.: T LOMAX
Tech. Officer: HQ/T W HALSTEAD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 3737 OREGON STATE UNIVERSITY **8095**
CYCLING OF DMSP AND DMS IN SURFACE OCEAN WATERS
09/10/1993 – 05/31/1997 FY97: $0 Total: $435,139
Prin. Invest.: E B SHERR, B F SHERR, G WOLFE
Tech. Officer: HQ/A C JANETOS, HQ/J T SUTTLES
CASE Category: 33 – OCEANOGRAPHY

NAGW 3745 OREGON STATE UNIVERSITY **8096**
ANALYSIS OF LAND-USE EFFECTS ON LANDSCAPE PATTERNS AND BIOLOGICAL DIVERSITY IN PACIFIC NWFORESTS
09/17/1993 – 06/15/1998 FY97: $0 Total: $326,283
Prin. Invest.: D O WALLIN, W B COHEN, G A BRADSHAW
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3870 OREGON STATE UNIVERSITY **8097**
NAGW-3870/B OREGOSN STATE UNIV. "REL. BETWEEN CHRL OPHYLL, SPECTRAL VEGETATION INDICES.." 36-MO
03/18/1994 – 09/30/1997 FY97: $0 Total: $285,579
Prin. Invest.: B J YODER, W E WINDER
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4172 OREGON STATE UNIVERSITY **8098**
EXPERIMENTAL AND THEORETICAL STUDIES OF ORGANIC SY NTHESIS AND ALTERATION AT HYDROTHERMAL CONDITIONS
10/20/1994 – 09/30/1997 FY97: $160,000 Total: $399,998
Prin. Invest.: B SIMONEIT
Tech. Officer: HQ/M MEYER
CASE Category: 11 – ASTRONOMY

NAGW 4436 OREGON STATE UNIVERSITY **8099**
EVALUATING ECOSYSTEM MODEL PREDICTIONS
05/10/1995 – 09/30/1997 FY97: $177,693 Total: $479,366
Prin. Invest.: M H UNSWORTH, T L CRAWFORD
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4596 OREGON STATE UNIVERSITY **8100**
COUPLED ATMOSPHERE OCEAN PROCESSES
07/20/1995 – 09/30/1997 FY97: $15,000 Total: $1,956,623
Prin. Invest.: M R ABBOTT
Tech. Officer: HQ/M BALTUCK, HQ/D M BUTLER
CASE Category: 33 – OCEANOGRAPHY

NAGW 4680 OREGON STATE UNIVERSITY **8101**
THE TOPOLOGY OF OCEAN CIRCULATION
08/03/1995 – 09/30/1997 FY97: $0 Total: $105,360
Prin. Invest.: A F BENNETT
Tech. Officer: HQ/M BALTUCK, HQ/N MAYNARD
CASE Category: 33 – OCEANOGRAPHY

NAGW 4714 OREGON STATE UNIVERSITY **8102**
COLLABORATIVE RESEARCH SCALING RHEORIES OF 3-D CEO METRY AND FLOWS
08/18/1995 – 05/31/1997 FY97: $31,043 Total: $60,425
Prin. Invest.: E C WAYMIRE
Tech. Officer: HQ/M Y WEI, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4880 OREGON STATE UNIVERSITY **8103**
LOCAL VALIDATION OF GLOBAL ESTIMATE OF BIOSPHERE P ROP: A SYS-THESIS OF SCALING METHODS & RESULTS ACR
03/01/1996 – 10/31/1997 FY97: $0 Total: $500,000
Prin. Invest.: W B COHEN, S W RUNNING
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4973 OREGON STATE UNIVERSITY **8104**
ANALYSIS OF RADARSAT'S C-BAND SYNTHETIC APERTURE R ADAR (SAR) DATA FOR IDENTIFICATION OF PBL ROLL SI
02/24/1996 – 02/28/1999 FY97: $0 Total: $49,753
Prin. Invest.: G LEVY
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 33 – OCEANOGRAPHY

NAGW 5031 OREGON STATE UNIVERSITY **8105**
OBSERVATIONS AND MODELING OF THE TRANSIENT GENERAL CIRCULA-TION OF THE PACIFIC OCEAN
04/09/1996 – 09/30/1997 FY97: $0 Total: $118,865
Prin. Invest.: D CHELTON
Tech. Officer: HQ/B C DOUGLAS, HQ/R C HARRISS
CASE Category: 33 – OCEANOGRAPHY

NAGW 5220 OREGON STATE UNIVERSITY **8106**
40AR/39AR INCREMENTAL HEATING AGES OF SUBMILLIGRAM SAMPLES OF LUNAR IMPACT MELT ROCKS USING CONTIN.
11/18/1996 – 09/01/1997 FY97: $40,000 Total: $40,000
Prin. Invest.: G DALRYMPLE*Prin. Invest.:* NONE
Tech. Officer: HQ/J NUTH, HQ/H C BRINTON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAS 1 19952 OREGON STATE UNIVERSITY **8107**
SCIENCE SUPPORT TO THE LITE SCIENCE TEAM
05/14/1993 – 11/30/1999 FY97: $58,000 Total: $223,000
Prin. Invest.: J A COAKLEY
Tech. Officer: LARC/G L MADDREA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 31360 OREGON STATE UNIVERSITY **8108**
MODIS INVESTIGATION
12/30/1991 – 12/14/2001 FY97: $571,000 Total: $2,396,000
Prin. Invest.: M R ABBOTT
Tech. Officer: GSFC/H OSEROFF
CASE Category: 33 – OCEANOGRAPHY

NAS 5 32965 OREGON STATE UNIVERSITY **8109**
SEAWINDS PRINCIPAL INVESTIGATOR & SCIENCE TEAM ACTIVITIES
09/15/1995 – 12/31/2004 FY97: $946,000 Total: $2,021,000
Prin. Invest.: D H FREILICH
Tech. Officer: GSFC/C RABER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 97129 OREGON STATE UNIVERSITY **8110**
SIMBIOS DATA PRODUCT & ALGORITHM VALIDATION
08/18/1997 – 08/17/1998 FY97: $344,482 Total: $344,482
Prin. Invest.: J R ZANEVELD
Tech. Officer: GSFC/C MCCLAIN
CASE Category: 33 – OCEANOGRAPHY

NCC 2 661 OREGON STATE UNIVERSITY **8111**
NUMERICAL SIMULATIONS OF THE MARTIAN ATMOSPHERE"
03/15/1990 – 12/31/1997 FY97: $0 Total: $108,948
Prin. Invest.: J R BARNES
Tech. Officer: ARC/R M HABERLE, ARC/J B POLLACK
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 5222 OREGON STATE UNIVERSITY **8112**
USE OF MAPLE SEEDING CONOPY REFLECTANCE DATASET FOR VALIDATION OF SART/LEAFMOD RADIATIVE TRANSFER
06/20/1997 – 07/31/1998 FY97: $5,000 Total: $5,000
Prin. Invest.: B YODER
Tech. Officer: ARC/D PETERSON
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NGT 30188 OREGON STATE UNIVERSITY **8113**
GLOBAL CHANGE FELLOWSHIP PROGRAM
09/01/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: B SHERR
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 33 – OCEANOGRAPHY

NGT 30203 OREGON STATE UNIVERSITY **8114**
GLOBAL CHANGE FELLOWSHIP PROGRAM
09/01/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: P SOLLINS
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30249 OREGON STATE UNIVERSITY **8115**
GLOBAL CHANGE FELLOWSHIP AWARD
10/06/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: J B KAUFMAN
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30263 OREGON STATE UNIVERSITY **8116**
GLOBAL CHANGE FELLOWSHIP AWARD
09/22/1994 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: M FREILICH
Tech. Officer: HQ/R ASCHIFFER, HQ/G ASRAR
CASE Category: 33 – OCEANOGRAPHY

NGT 40033 OREGON STATE UNIVERSITY **8117**
NATL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
04/03/1991 – 09/30/1997 FY97: $0 Total: $1,045,533
Prin. Invest.: D R CALDWELL
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51692 OREGON STATE UNIVERSITY **8118**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/15/1996 – 08/31/1997 FY97: $0 Total: $22,000
Prin. Invest.: D SNOW
Tech. Officer: HQ/GLESANE
CASE Category: 45 – ELECTRICAL ENGR

NGT 2 52221 OREGON STATE UNIVERSITY **8119**
BIOMASS & CARBON DYNAMICS ASSOCIATED WITH LAND USE IN THE BRAZILIAN AMAZON: SCALING OF GROUND–....
09/20/1996 – 08/31/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: J B KAUFFMAN
Tech. Officer: ARC/E P CONDON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 5 30064 OREGON STATE UNIVERSITY **8120**
PHYSICAL–BIOLOGICAL INTERACTIONS IN THE SOUTHERN O
09/10/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: M ABBOTT
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40022 OREGON STATE UNIVERSITY **8121**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
02/13/1997 – 02/28/1998 FY97: $170,000 Total: $170,000
Prin. Invest.: A C KLEIN
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50080 OREGON STATE UNIVERSITY **8122**
EFFECTS OF RESISTANCE AND HIGH–IMPACT TRAINING ON STEM IN PRE-MENOPAUSAL WOMEN
09/05/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: C SNOW
Tech. Officer: GSFC/L CHAMBERS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50092 OREGON STATE UNIVERSITY **8123**
TYPE SIMILARITIES FOR ENABLING CODE REUSE IN VISUA
09/05/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: BURNETT
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 8 1283 PORTLAND STATE UNIVERSITY **8124**
JOVE RESEARCH
01/21/1997 – 08/31/1998 FY97: $43,914 Total: $43,914
Prin. Invest.: A M FRASER
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 8 222 SOUTHERN OREGON STATE COLLEGE **8125**
JOVE
02/25/1992 – 04/30/1996 FY97: $0 Total: $130,993
Prin. Invest.: J D'ALLURA, G STRINGER
Tech. Officer: MSFC/F SIX
CASE Category: 11 – ASTRONOMY

NAG 1 1650 UNIVERSITY OF OREGON – EUGENE **8126**
ATMOSPHERIC AND SPECTROSCOPIC RESEARCH IN THE FAR INFRARED NLPN 94-830
11/14/1994 – 02/21/1998 FY97: $65,000 Total: $155,001
Prin. Invest.: K JAI-PARK
Tech. Officer: LARC/I G NOLT, LARC/T C STEELE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 3 1934 UNIVERSITY OF OREGON – EUGENE **8127**
NUCLEATION OF QUNATIZED VORTICES FROM ROTATING SUP ERFLLUID DROPS
08/05/1996 – 06/30/2000 FY97: $25,000 Total: $83,000
Prin. Invest.: D J DONNELLY
Tech. Officer: LERC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 5 1903 UNIVERSITY OF OREGON – EUGENE **8128**
KINEMATIC AND DYNAMIC MODELING OF WESTERN NORTH AM ERICAN TECTONIC ACTIVITY
02/20/1992 – 12/31/1997 FY97: $0 Total: $401,000
Prin. Invest.: E D HUMPHREYS
Tech. Officer: GSFC/B G BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3282 UNIVERSITY OF OREGON – EUGENE **8129**
QUASI-PERIODIC OSCILLATIONS AND THE TEMPORAL CHARA CTERISTICS OF THE AM HERCULIS OBJECTS
07/01/1996 – 01/31/1998 FY97: $0 Total: $25,700
Prin. Invest.: J IMAMURA
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 6109 UNIVERSITY OF OREGON – EUGENE **8130**
THE FORMATION AND EVOLUTION OF LSB GALAXIES
07/24/1997 – 06/30/1998 FY97: $89,766 Total: $89,766
Prin. Invest.: D SCHOMBERT
Tech. Officer: GSFC/H SMITH
CASE Category: 11 – ASTRONOMY

NAG 8 1047 UNIVERSITY OF OREGON – EUGENE **8131**
THE NEAR-UV PROPERTIES OF GALAXIES WHICH HAVE LOW OPTICAL SURFACE BRIGHTNESS
03/16/1994 – 12/31/1997 FY97: $0 Total: $116,859
Prin. Invest.: G D BOTHUN, E P SMITH
Tech. Officer: MSFC/J OWENS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 882 UNIVERSITY OF OREGON – EUGENE **8132**
MODIFICATION OF COMPUTER CODES FOR DETERMINING THE STRUCTURE OF THE ATMOSPHERE OF JUPITER & USE OF.
01/09/1995 – 06/30/1997 FY97: $657 Total: $117,123
Prin. Invest.: D B KIRK
Tech. Officer: ARC/L E LASHER, ARC/R E YOUNG
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 51307 UNIVERSITY OF OREGON – EUGENE **8133**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/02/1994 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: A MALONY
Tech. Officer: ARC/K G STEVENS
CASE Category: 22 – COMPUTER SCIENCE

NGT 5 50105 UNIVERSITY OF OREGON – EUGENE **8134**
A REALISTIC MODEL OF CO AND POST-SEISMIC DEFORMATI RIDGE EARTHQUAKE AND ITS PREDECESSORS
09/06/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: E HUMPHREYS
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50107 UNIVERSITY OF OREGON – EUGENE **8135**
POTENTIAL VEGETATION CHANGE IN NORTH AMERICA IN RE L WARMING
09/06/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: P BARTLEIN
Tech. Officer: GSFC/P BARTLEIN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

PENNSYLVANIA

NAG 5 3617 ALLEGHENY COLLEGE **8136**
ASSESSING THE IMPACTS OF EL NINO CLIMATIC EVENTS O PHILLIPINE ECONOMY
02/21/1997 – 12/14/1997 FY97: $54,991 Total: $54,991
Prin. Invest.: D BENSEL
Tech. Officer: GSFC/A J TUYAHOV
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4000 BLOOMSBERG UNIVERSITY **8137**
A STUDY OF THE VENUSIAN SURFACE UTILIZING A SELF-A
03/17/1997 – 12/31/1997 FY97: $25,500 Total: $25,500
Prin. Invest.: D K SHEPARD
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 2509 BUCKNELL UNIVERSITY **8138**
DESIGN OF ROUTERS FOR MASSIVELY PARALLEL COMPUTERS WITH GREATER THAN A MILLION PROCESSORS
02/08/1994 – 04/30/1997 FY97: $0 Total: $39,991
Prin. Invest.: M F ABURDENE
Tech. Officer: GSFC/J E DORBAND
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2934 BUCKNELL UNIVERSITY **8139**
DESIGN OF A MICROCONTROLLER FOR A MASSIVELY PARALLEL COMPUTER WITH GREATER THAN A MILLION ETC.
05/15/1995 – 04/30/1997 FY97: -$4,612 Total: $24,083
Prin. Invest.: M F ABURDENA
Tech. Officer: GSFC/J K DORBAND
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 3669 BUCKNELL UNIVERSITY **8140**
PLANETARY MINIATURE LIDAR FOR WATER VAPOER AEROSOL PROFILES FROM MARS
01/15/1997 – 12/31/1997 FY97: $20,843 Total: $20,843
Prin. Invest.: S M LORD
Tech. Officer: GSFC/J RALL
CASE Category: 45 – ELECTRICAL ENGR

NAGW 3377 BUCKNELL UNIVERSITY **8141**
EFFECTS OF NON-SPHERICITY AND HETEROGENEITY ON LIGHT SCATTERING FROM COMETARY DUST.
01/01/1993 – 12/31/1996 FY97: $0 Total: $44,117
Prin. Invest.: D J LIEN
Tech. Officer: HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 1 1666 CARNEGIE – MELLON UNIVERSITY **8142**
PSEUDO-TIME ONE-SHOT METHODS FOR CONSTRAINED OPTIM IZATION PROBLEMS
01/13/1995 – 01/12/1998 FY97: $55,000 Total: $194,561
Prin. Invest.: S TA'ASAN
Tech. Officer: LARC/M D SALAS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1687 CARNEGIE – MELLON UNIVERSITY **8143**
CANONICAL VARIABLES MULTIGRID METHOD FOR COMPRESSIBLE NAVIER-STOKES EQUATIONS
01/20/1995 – 09/30/1997 FY97: $54,799 Total: $140,375
Prin. Invest.: S TA'ASAN
Tech. Officer: LARC/W K ANDERSON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 1048 CARNEGIE – MELLON UNIVERSITY **8144**
HAPTIC PERCEPTION
07/30/1996 – 03/31/1997 FY97: $0 Total: $150,000
Prin. Invest.: E KROTKOV
Tech. Officer: ARC/M H SIMS, ARC/S LAU
CASE Category: 46 – MECHANICAL ENGR

NAG 2 1137 CARNEGIE – MELLON UNIVERSITY **8145**
POSITION ESTIMATION FROM NATURAL LANDMARKS
07/11/1997 – 10/31/1997 FY97: $99,888 Total: $99,888
Prin. Invest.: M HERBERT
Tech. Officer: ARC/M H SIMS
CASE Category: 22 – COMPUTER SCIENCE

NAG 3 1505 CARNEGIE – MELLON UNIVERSITY **8146**
TRANSPORT PHEMOMENA IN STRATIFIED MULTI-FLUID FLOW IN THE PRESENCE & IN THE ABSENCE OF GRAVITY
06/23/1993 – 07/12/1996 FY97: $0 Total: $390,000
Prin. Invest.: N CHIGIER
Tech. Officer: LERC/R L THOMPSON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1875 CARNEGIE – MELLON UNIVERSITY **8147**
FLUID PHYSICS IN STOCHASTIC ACCELERATION ENVIRONME NT DIFFUSION AND NON-SOINOIDAL FLOWS
05/21/1996 – 05/20/1998 FY97: $65,000 Total: $165,000
Prin. Invest.: R F SEKERKA
Tech. Officer: LERC/A CHAIT
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1994 CARNEGIE – MELLON UNIVERSITY **8148**
CONTROL OF SHOCK-WAVE/BOUNDARY-LAYER INTERACTIONS WITH BLEED
12/13/1996 – 12/09/1999 FY97: $99,584 Total: $99,584
Prin. Invest.: T I-P SHIH
Tech. Officer: LERC/B P WILLIS, LERC/D O DAVIS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 1468 CARNEGIE – MELLON UNIVERSITY **8149**
RESEARCH RELATIVE TO AVOIDING SPACE ROBOT COLLISIONS UTILIZING TRI-MODE SKIN SENSORS
09/20/1990 – 10/31/1995 FY97: -$15,053 Total: $172,004
Prin. Invest.: F PRINZ, S MAHALINGAM
Tech. Officer: GSFC/J M VRANISH
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 3651 CARNEGIE – MELLON UNIVERSITY **8150**
MISSION SCIENTIST FOR ESA'S X-RAY MULTI-MIRROR MIS
03/06/1997 – 02/28/1998 FY97: $130,000 Total: $130,000
Prin. Invest.: D GRIFFITHS
Tech. Officer: GSFC/L KALUZIENSKI
CASE Category: 11 – ASTRONOMY

NAG 5 4635 CARNEGIE – MELLON UNIVERSITY **8151**
LAST YEAR OF FUNDING FOR USERC TO DEVELOP & DEMONS TECHNOLOGIES ASSOCIATED WITH DEPLOYMENT OF ROBOT
06/04/1997 – 09/30/1997 FY97: $529,969 Total: $529,969
Prin. Invest.: E KROTKOV
Tech. Officer: GSFC/R AVANT
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 4748 CARNEGIE – MELLON UNIVERSITY **8152**
UNIVERSITY TO DEVELOP AND DEMONSTRATE NOVEL NEW TE WITH DEPLOYMENT OF ROBOT ROVERS TOTHE LUNAR SURF
07/21/1997 – 06/30/1998 FY97: $1,298,322 Total: $1,298,322
Prin. Invest.: T EAGAN
Tech. Officer: GSFC/R AVANT
CASE Category: 44 – CIVIL ENGR

NAG 5 6075 CARNEGIE – MELLON UNIVERSITY **8153**
CLUES TO THE ORIGIN OF THE HARD XRB: DEEP SURVEYS
07/28/1997 – 06/30/1998 FY97: $31,800 Total: $31,800
Prin. Invest.: R E GRIFFITHS
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAGW 1175 CARNEGIE – MELLON UNIVERSITY **8154**
AUTONOMOUS PLANETARY ROVER
10/19/1987 – 09/30/1996 FY97: $0 Total: $11,654,657
Prin. Invest.: T KANADE, T MITCHELL, W L WHITTAKER
Tech. Officer: HQ/D LAVERY, HQ/C B SOLLOWAY
CASE Category: 49 – ENGINEERING, OTHER

NAGW 3863 CARNEGIE – MELLON UNIVERSITY **8155**
LUNAR ROVER DEMONSTRATION
01/26/1994 – 12/31/1996 FY97: $0 Total: $2,516,880
Prin. Invest.: W L WHITTAKER
Tech. Officer: HQ/D B LAVERN
CASE Category: 49 – ENGINEERING, OTHER

NAGW 5113 CARNEGIE – MELLON UNIVERSITY **8156**
ROBOTICS ENGINEERING CONSORTIUM
07/25/1996 – 12/31/1996 FY97: $0 Total: $1,100,829
Prin. Invest.: W WHITTAKER
Tech. Officer: HQ/D LAVERY
CASE Category: 46 – MECHANICAL ENGR

NAS 3 27735 CARNEGIE – MELLON UNIVERSITY **8157**
COORDINATED APPROACH TO DEVELOPMENT & VALIDATION OF AERO-ELASTIC CODES
05/30/1996 – 08/31/2000 FY97: $98,130 Total: $193,130
Prin. Invest.: J H GRIFFIN
Tech. Officer: LERC/R DEL ROSARIO, LERC/G L STEFKO
CASE Category: 46 – MECHANICAL ENGR

NCC 2 976 CARNEGIE – MELLON UNIVERSITY **8158**
CONSTRAINT POSTING ALOGRITHMS FOR SCHEDULING UNDER COM-PLEX CONSTRAINTS
12/19/1996 – 09/30/1997 FY97: $49,992 Total: $49,992
Prin. Invest.: S F SMITH
Tech. Officer: ARC/S LAU
CASE Category: 22 – COMPUTER SCIENCE

NCC 3 465 CARNEGIE – MELLON UNIVERSITY **8159**
MICROSCALE HYDRODYNAMICS NEAR MOVING CONTRACT LINE S
04/18/1996 – 04/17/2000 FY97: $120,000 Total: $250,000
Prin. Invest.: S GAROFF, M WEISLOGEL
Tech. Officer: LERC/R SKARDA
CASE Category: 13 – PHYSICS

NCC 5 223 CARNEGIE – MELLON UNIVERSITY **8160**
NATIONAL ROBOTICS ENGINEERING CONSORTIUM
08/26/1997 – 07/31/1998 FY97: $2,045,000 Total: $2,045,000
Prin. Invest.: T KANADE
Tech. Officer: GSFC/D LAVERY
CASE Category: 11 – ASTRONOMY

NCC 7 7 CARNEGIE – MELLON UNIVERSITY **8161**
FRACTAL BRANCHING ULTRA–DEXTEROUS ROBOTS
11/13/1996 – 11/13/1998 FY97: $223,904 Total: $223,904
Prin. Invest.: H MORAVEC
Tech. Officer: JPL/N MARSWELL
CASE Category: 46 – MECHANICAL ENGR

NGT 51039 CARNEGIE – MELLON UNIVERSITY **8162**
NGT–51039/CARNEGIE MELLON UNIV/GRADUATE STUDENT RE SEARCH-ERS PROGRAM
05/05/1993 – 06/30/1996 FY97: $0 Total: $66,000
Prin. Invest.: R SIMMONS, T MITCHELL
Tech. Officer: JPL/C HIX
CASE Category: 45 – ELECTRICAL ENGR

NGT 51045 CARNEGIE – MELLON UNIVERSITY **8163**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/14/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: E KROTKOV
Tech. Officer: MSFC/F SIX
CASE Category: 45 – ELECTRICAL ENGR

NGT 51231 CARNEGIE – MELLON UNIVERSITY **8164**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/16/1994 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: B V KUMAR
Tech. Officer: JSC/S GOLDSTEIN
CASE Category: 45 – ELECTRICAL ENGR

NGT 51272 CARNEGIE – MELLON UNIVERSITY **8165**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/26/1994 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: M ERDMANN
Tech. Officer: JPL/C HIX
CASE Category: 22 – COMPUTER SCIENCE

NGT 51275 CARNEGIE – MELLON UNIVERSITY **8166**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/26/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: W WHITTAKER
Tech. Officer: JPL/C HIX
CASE Category: 22 – COMPUTER SCIENCE

NGT 51292 CARNEGIE – MELLON UNIVERSITY **8167**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/06/1994 – 06/30/1996 FY97: $0 Total: $44,000
Prin. Invest.: C THORPE
Tech. Officer: HQ/D HOLLAND
CASE Category: 22 – COMPUTER SCIENCE

NGT 51654 CARNEGIE – MELLON UNIVERSITY **8168**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/07/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: A MOORE
Tech. Officer: HQ/D HOLLAND
CASE Category: 22 – COMPUTER SCIENCE

NGT 51701 CARNEGIE – MELLON UNIVERSITY **8169**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/08/1996 – 07/01/1996 FY97: –$22,000 Total: $0
Prin. Invest.: A W MOORE
Tech. Officer: JPL/C HIX
CASE Category: 22 – COMPUTER SCIENCE

NGT 51705 CARNEGIE – MELLON UNIVERSITY **8170**
GRAD STUD RES PROG
08/08/1996 – 09/01/1996 FY97: –$22,000 Total: $0
Prin. Invest.: A YU
Tech. Officer: JPL/C HIX
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90184 CARNEGIE – MELLON UNIVERSITY **8171**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/27/1993 – 08/14/1996 FY97: $0 Total: $36,000
Prin. Invest.: R KAIL
Tech. Officer: HQ/D RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90267 CARNEGIE – MELLON UNIVERSITY **8172**
UGSRP/UMF
02/03/1995 – 08/14/1996 FY97: $0 Total: $24,000
Prin. Invest.: R P KAIL
Tech. Officer: HQ/D RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 2 52232 CARNEGIE – MELLON UNIVERSITY **8173**
LANDMARK BASED NAVIGATION FOR A PLANETARY ROVER
08/26/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: E KROTKOV
Tech. Officer: ARC/M H SIMS
CASE Category: 46 – MECHANICAL ENGR

NGT 3 52326 CARNEGIE – MELLON UNIVERSITY **8174**
GRADUATE STUDENT RESEARCHERS PROGRAM GRADUATE STUDENT RESEARCHERS PROGRAM
06/13/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: P N RUMTA
Tech. Officer: LERC/F MONTEGANI
CASE Category: 49 – ENGINEERING, OTHER

NGT 5 50054 CARNEGIE – MELLON UNIVERSITY **8175**
INVESTIGATING THE MECH. OF AGGREGATION OF COLLOIDA CTROPHO-RETIC DEPOSITION
08/05/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J ANDERSON
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50060 CARNEGIE – MELLON UNIVERSITY **8176**
REINFORCEMENT LEARNING FOR SPACECRAFT CONFIGURATIO
08/11/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: A W MOORE/BOYAN
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50076 CARNEGIE – MELLON UNIVERSITY **8177**
MULTIAGENT LEARNING FOR AUTONOMOUS SPACECRAFT CONS
08/26/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: M VELOSO
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90008 CARNEGIE – MELLON UNIVERSITY **8178**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
01/06/1997 – 08/14/1997 FY97: $12,000 Total: $12,000
Prin. Invest.: R KAIL
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 46 – MECHANICAL ENGR

NGT 5 90030 CARNEGIE – MELLON UNIVERSITY **8179**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR) STUDENT CARL MORALES
01/29/1997 – 08/14/1997 FY97: $12,000 Total: $12,000
Prin. Invest.: E GROTZINGER
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 49 – ENGINEERING, OTHER

NGT 9 1 CARNEGIE – MELLON UNIVERSITY **8180**
APPLICATIONS TO VISION /AUTONOMOUS VEHICLE CONTROL
05/31/1995 – 06/30/1997 FY97: –$22,000 Total: $22,000
Prin. Invest.: D A POWERLAAN
Tech. Officer: JSC/D G SICKOREZ
CASE Category: 22 – COMPUTER SCIENCE

NAG 8 1312 CLARION UNIVERSITY OF PENNSYLVANIA **8181**
JOVE RESEARCH
01/22/1997 – 08/31/1998 FY97: $72,000 Total: $72,000
Prin. Invest.: A J VEGA, P T RYBERG
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 1 1224 DREXEL UNIVERSITY **8182**
SULPHER GAS MEASUREMENTS BY GAS CHROMATOGRAPHY/ MASS SPECTROMETRY W/ISOTOPICALLY LABELLED INTERNAL
02/15/1991 – 09/30/1996 FY97: –$1 Total: $804,397
Prin. Invest.: A R BANDY, D C THORNTON
Tech. Officer: LARC/R J BENDURA, LARC/J M HOELL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1770 DREXEL UNIVERSITY **8183**
A STUDY OF DMS AND SO2 ON PEM–TROPICS MY 1/2
09/29/1995 – 12/01/1998 FY97: $308,716 Total: $832,716
Prin. Invest.: D R BANDY
Tech. Officer: LARC/J M HOELL, JR., LARC/R J BENDURA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 3 1421 DREXEL UNIVERSITY **8184**
FUEL–AIR MIXING IN LEAN BURN DIRECT INJECTION COMB USTION
12/17/1992 – 04/28/1998 FY97: $57,921 Total: $243,247
Prin. Invest.: K J CHOI
Tech. Officer: LERC/R R TACINA
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1715 DREXEL UNIVERSITY **8185**
IN VIVO EVALUATION OF A NOVEL AND IMPROVED INSTRUM ENT FOR OBJECTIVE EVALUATION OF OPTHALMIC LENS OP
03/01/1995 – 02/10/1998 FY97: $13,203 Total: $20,973
Prin. Invest.: S DUBIN VMD
Tech. Officer: LERC/J S LING, LERC/B S SINGH
CASE Category: 56 – MEDICL

NAG 3 1884 DREXEL UNIVERSITY **8186**
COMBUSTION OF UNCONFINED DROPLET CLUSTERS IN MICRO GRAVITY
06/01/1996 – 05/31/2000 FY97: $53,000 Total: $122,790
Prin. Invest.: D A RUFF
Tech. Officer: LERC/D D ROSS, LERC/M A SACKSTEDTER
CASE Category: 46 – MECHANICAL ENGR

NAG 3 2043 DREXEL UNIVERSITY **8187**
QUANITATIVE EVALUATION OF ICE ACCRETION CHARACTERI STICS
04/28/1997 – 09/30/1997 FY97: $62,674 Total: $62,674
Prin. Invest.: G A RUFF
Tech. Officer: LERC/S S CHEN
CASE Category: 41 – AERONAUTICAL ENGNR

NAGW 2559 DREXEL UNIVERSITY **8188**
NAGW–2559/DREXEL UNIV/STAR CLUSTER EVOLUTION WITH PRIMORDIAL BINARIES
06/13/1991 – 02/28/1997 FY97: $0 Total: $249,480
Prin. Invest.: S L MCMILLAN
Tech. Officer: HQ/D P HUENEMOERDER, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NCC 1 171 DREXEL UNIVERSITY **8189**
NEURAL CONTROL OF MAGNETIC SUSPENSION SYSTEMS FOR AERO-SPACE APPLICATIONS
03/12/1993 – 03/31/1996 FY97: $1 Total: $100,001
Prin. Invest.: S GRAY
Tech. Officer: LARC/D I SOLOWAY, LARC/P J HALEY
CASE Category: 45 – ELECTRICAL ENGR

NCC 1 224 DREXEL UNIVERSITY **8190**
ROBUST CONTROL OF NONLINEAR AND PARAMETER DEPEN- DENT SYS- TEMS
04/03/1996 – 11/15/1997 FY97: $34,520 Total: $109,520
Prin. Invest.: B C CHANG, H G KWATNY
Tech. Officer: LARC/C M BELCASTRO
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 3365 FRANKLIN–MARSHALL COLLEGE **8191**
ISO GUEST OBSERVER PROJECTS: "A" STARS IN YOUNG OP EN CLUS- TERS AND DUST AROUND SOLAR–TYPE STARS....
08/15/1996 – 08/14/1998 FY97: $0 Total: $25,000
Prin. Invest.: D E BACKMAN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3015 HAVERFORD COLLEGE **8192**
A SEARCH FOR HOT, DIFFUSE GAS IN SUPERCLUSTERS
07/19/1995 – 07/31/1998 FY97: $0 Total: $39,200
Prin. Invest.: S P BOUGHN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4854 LAFAYETTE COLLEGE **8193**
DENSITIES AND PHASE EQUILIBRIA TO 1.0 GPA AND 120K AND THEIR ROLE IN THE LOW TEMPERATURE IGNEOUSEVO
06/26/1997 – 04/30/1998 FY97: $33,300 Total: $33,300
Prin. Invest.: D HOGENBOOM
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAGW 3521 LAFAYETTE COLLEGE **8194**
NAGW–3521/LAFAYETTE COLLEGE/DENSITIES AND PHASE EQ UILIBRIA TO 1.4 GPA AND 120K
04/16/1993 – 10/31/1997 FY97: $33,300 Total: $143,328
Prin. Invest.: D HOGENBLOOM
Tech. Officer: HQ/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 1 1477 LEHIGH UNIVERSITY **8195**
A LINKAGE SUSPENSION SYSTEM FOR FLEXIBLE SPACE ROBOTS NLPN 92–1223
02/01/1993 – 08/31/1996 FY97: $0 Total: $62,498
Prin. Invest.: M CHEW
Tech. Officer: LARC/J JUANG, LARC/L G HORTA
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 1 1885 LEHIGH UNIVERSITY **8196**
VORTEX–BODY INTERACTIONS: A CRITICAL ASSESMENT
12/16/1996 – 12/31/1997 FY97: $15,001 Total: $15,001
Prin. Invest.: D O ROCKWELL
Tech. Officer: LARC/B S LAZOS, LARC/M J WALSH
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1578 LEHIGH UNIVERSITY **8197**
HYPERSONIC THREE – DIMENSIONAL BOUNDARY LAYER SEPA RATION
03/08/1994 – 04/22/1998 FY97: $50,081 Total: $190,379
Prin. Invest.: J D WALKER
Tech. Officer: LERC/L A POVINELLI
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1632 LEHIGH UNIVERSITY **8198**
LOW DIMENSIONAL MODELS FOR THERMOCAPPILLARY CONVEC TIVE FLOWS IN CRYSTALS PROCESSES
06/24/1994 – 08/22/1996 FY97: $0 Total: $99,647
Prin. Invest.: A LIAKOPOULOS, P A BLYTHE
Tech. Officer: LERC/R J SKARDA
CASE Category: 46 – MECHANICAL ENGR

NGT 70346 LEHIGH UNIVERSITY **8199**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
08/12/1993 – 12/31/1996 FY97: $0 Total: $44,000
Prin. Invest.: J RICLES
Tech. Officer: HQ/D K RUSSELL
CASE Category: 46 – MECHANICAL ENGR

NAG 5 4492 LINCOLN UNIVERSITY – PA. **8200**
PACE AWARD—PRECOLLEGE AWARDS FOR EXCELLENCE IN MA ENGI- NEERING AND TECHNOLOGY PROGRAM
05/15/1997 – 03/31/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: R LANGLEY
Tech. Officer: GSFC/M STOUTSENBERGER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4544 LINCOLN UNIVERSITY – PA. **8201**
PACE/MSET PROGRAM (LINCOLN ADVANCE SCIENCE AND ENGINEERING REINFORCEMENT
06/16/1995 – 03/31/1997 FY97: $0 Total: $100,000
Prin. Invest.: R LANGLEY
Tech. Officer: HQ/D RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4654 LINCOLN UNIVERSITY – PA. **8202**
PROJECT EXCITE: EXPLORING THE CHALLENGE OF INTEGR ATING TECHNOLOGY AND EDUCATION
08/16/1995 – 02/28/1997 FY97: $0 Total: $185,263
Prin. Invest.: J ISAAC
Tech. Officer: HQ/B L WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG13 47 LINCOLN UNIVERSITY – PA. **8203**
EXPLORING THE CHALLENGE OF INTEGRATING TECHNOLOGY AND EDUCATION
08/16/1995 – 10/31/1997 FY97: $117,994 Total: $117,994
Prin. Invest.: D ROYER
Tech. Officer: SSC/A JOYCE
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 5 59 LINCOLN UNIVERSITY – PA. **8204**
TO HELP STUDENTS EASE THE TRANSITION FROM HIGH SCH
09/15/1997 – 04/30/1998 FY97: $90,000 Total: $90,000
Prin. Invest.: D LANGLEY
Tech. Officer: GSFC/D MENCHAN
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 5 3368 PENN. ST. U. @ ERIE–BEHREND COLLEGE **8205**
ISO SOLAR SYSTEM MISSION–TEAM MEMBER SUPPORT
08/28/1996 – 08/31/1999 FY97: $0 Total: $60,000
Prin. Invest.: R F KNACKE
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAGW 4400 PENNSYLVANIA STATE UNIV –HERSHEY MED. **8206**
EFFECTS OF BEDREST ON FOREARM MUSCLE
04/03/1995 – 02/28/1998 FY97: $0 Total: $227,579
Prin. Invest.: L I SINOWAY
Tech. Officer: HQ/V THORNE
CASE Category: 56 – MEDICL

NGT 70327 PENNSYLVANIA STATE UNIV –HERSHEY MED. **8207**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
07/01/1993 – 06/30/1996 FY97: $0 Total: $66,000
Prin. Invest.: W SEVERS
Tech. Officer: HQ/D K RUSSELL
CASE Category: 56 – MEDICL

NAG 1 999 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8208**
STUDIES OF RADIATION AND MICROPHYSICS IN CIRRUS AND MARINE STRATOCUMULUS
05/25/1989 – 02/28/1998 FY97: $52,635 Total: $592,635
Prin. Invest.: T P ACKERMAN
Tech. Officer: LARC/T OWENS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1057 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8209**
IN SITU DETECTION OF TROPOSPHERIC OH,HO2, NO2, AND NO BY LASER INDUCED FLUORESCENCE IN DETECTION
08/31/1989 – 03/31/1996 FY97: –$1 Total: $746,631
Prin. Invest.: W H BRUNE
Tech. Officer: LARC/J M HOELL, LARC/R J BENDURA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1367 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8210**
COMPUTATIONAL AEROACOUSTICS USING NONLINEAR CFD TECHNIQUES ON PARALLEL COMPUTERS
01/15/1992 – 12/31/1997 FY97: $60,000 Total: $320,000
Prin. Invest.: L N LONG
Tech. Officer: LARC/J W POSEY, LARC/W R WATSON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1441 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8211**
EEG AND CHAOS: DESCRIPTION OF UNDERLYING DYNAMICS AND ITS RELATION TO DISSOCIATIVE STATES
06/25/1992 – 09/30/1997 FY97: $37,000 Total: $191,619
Prin. Invest.: M J RAY
Tech. Officer: LARC/A T POPE
CASE Category: 69 – PSYCHOLOGY, OTHER

NAG 1 1479 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8212**
COMPUTATIONAL AEROACOUSTICS AND NUMERICAL SIMULATION OF SUPERSONIC JETS NLPN 92–1121
02/25/1993 – 02/24/1996 FY97: $1 Total: $292,526
Prin. Invest.: P J MORRIS, L N LONG*Prin. Invest.:* NONE
Tech. Officer: LARC/W E ZORUMSKI
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1638 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8213**
SONIC BOOM NOISE PENETRATION INTO THE OCEAN MY 1/3
08/15/1994 – 12/14/1997 FY97: $48,434 Total: $172,290
Prin. Invest.: V W SPARROW
Tech. Officer: LARC/G L MCANINCH
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1833 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8214**
THE DIRECT NUMERICAL SIMULATION OF PERFORATED PLATES LINERS
04/29/1996 – 04/28/1998 FY97: $21,000 Total: $71,000
Prin. Invest.: L N LONG
Tech. Officer: LARC/M B TRACY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1875 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8215**
SIMULATION OF THE DETECTION OF VORTEX WAKES USING A RADAR ACOUSTIC SOUNDING SYSTEM (RASS)
10/18/1996 – 10/17/1997 FY97: $51,010 Total: $51,010
Prin. Invest.: P J MORRIS
Tech. Officer: LARC/R F NEECE
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 1 1924 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8216**
NUMERICAL SIMULATION OF THE EFFECTS OF FUSELAGE SCATTERING ON THE NOISE RADIATED BY ROTORCRAFT
05/13/1997 – 05/12/1998 FY97: $24,735 Total: $24,735
Prin. Invest.: P J MORRIS
Tech. Officer: LARC/K S BRENTNER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 826 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8217**
PARTICIPATION AS MISSION SCIENTIST FOR THE SPADEII MISSION
02/22/1993 – 01/31/1998 FY97: $108,000 Total: $724,643
Prin. Invest.: W BRUNE
Tech. Officer: ARC/E CONDON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 1117 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8218**
HOX MEASUREMENTS IN SONEW WITH THE AIRBORNE TROPOS PHERIC OXIDES SENSOR (ATHOS)
02/25/1997 – 12/31/1997 FY97: $358,400 Total: $358,400
Prin. Invest.: W H BRUNE
Tech. Officer: ARC/E P CONDON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 1152 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8219**
PERFORMANCE CHARACTERIZATION OF OBSTACLE DETECTION ALGORITHMS FOR AIRCRAFT NAVIGATION
08/14/1997 – 11/30/1997 FY97: $84,172 Total: $84,172
Prin. Invest.: R KASTRUI, O I CAMPS
Tech. Officer: ARC/L S TONE, ARC/B T SWEET
CASE Category: 22 – COMPUTER SCIENCE

NAG 3 1287 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8220**
THE GRAVITATIONAL ROLE IN LIQUID PHASE SINTERING
07/03/1991 – 11/07/1997 FY97: $180,000 Total: $1,064,000
Prin. Invest.: R M GERMAN
Tech. Officer: LERC/R L DEWITT
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1586 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8221**
NEURAL–NETWORK–BASED ANALYSIS OF SPACE ACCELERATIO N MEASUREMENT SYSTEM (SAMS) DATA
04/04/1994 – 12/31/1997 FY97: $38,885 Total: $223,745
Prin. Invest.: A SINHA
Tech. Officer: LERC/C M GRODSINSKY
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 3 1708 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8222**
COMPUTATIONAL NOISE STUDIES OF SHORT CONICAL PLUG– NOZZLE & EQUIVALENT CONVERGENT & CD NOZZLES
02/01/1995 – 01/31/1996 FY97: –$57 Total: $74,191
Prin. Invest.: I S DAS
Tech. Officer: LERC/E A KREJSA, LERC/J F GROENEWEG
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1735 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8223**
FLOW FIELD ANALYSIS OF LOW REYNOLDS NUMBER ROCKET ENGINES
04/13/1995 – 04/12/1996 FY97: $0 Total: $25,000
Prin. Invest.: C L MERKLE
Tech. Officer: LERC/S SCHNEIDER
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1736 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8224**
THREE–DIMENSIONAL FLOW FIELD IN A TURBINE NOZZLE A ND ROTOR BLADE FLOWS
04/17/1995 – 09/30/1997 FY97: $44,500 Total: $126,000
Prin. Invest.: B LAKSHMINARAYANA
Tech. Officer: LERC/R BOYLE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1745 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8225**
EXPERIMENTAL INVESTIGATION OF SPANWISE MIXING PHEN OMENA AND 3D UNSTEADY FLOW FIELD IN MULTISTAGE CO
05/26/1995 – 09/30/1996 FY97: $0 Total: $31,143
Prin. Invest.: B LAKSHMINARAYANA
Tech. Officer: LERC/A STRAZIAR
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1799 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8226**
LIFE EXTENDING CONTROL OF AEROSPACE SYSTEMS
01/22/1996 – 01/21/1997 FY97: $0 Total: $39,994
Prin. Invest.: A RAY, M CARRINO
Tech. Officer: LERC/C F LORENZO
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1818 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8227**
COMPUTATIONAL NOISE STUDIES OF AN EJECTOR TYPE SUPERSONIC PLUG – NOZZLE
03/27/1996 – 03/26/1997 FY97: $36,800 Total: $73,623
Prin. Invest.: I S DAS
Tech. Officer: LERC/E KREJSA
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1871 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8228**
MICROGRAVITY EFFECTS ON TRANSENDOTHELIAL TRANSPORT
05/22/1996 – 05/21/2000 FY97: $77,000 Total: $192,000
Prin. Invest.: J M TAZBELL
Tech. Officer: LERC/J S LING, LERC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 3 1995 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8229**
AERO–THERMO–STRUCTURAL OPTIMIZATION OF COOLED TURB INE BLADES
12/02/1996 – 11/26/1999 FY97: $104,617 Total: $104,617
Prin. Invest.: G S DULIKRAVICH
Tech. Officer: LERC/H J GLADDEN, LERC/C LAWRENCE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 2016 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8230**
DAMAGE MITIGATING CONTROL OF AEROSPACE PROPULSION SYSTEMS
02/28/1997 – 02/28/1998 FY97: $40,017 Total: $40,017
Prin. Invest.: A RAY, M CARPINO
Tech. Officer: LERC/C F LORENZO
CASE Category: 46 – MECHANICAL ENGR

NAG 3 2025 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8231**
COMPUTATION OF VISCOUS TRANSITIONAL FLOWS IN LOW P RESSURE TURBINES
03/13/1997 – 10/31/1997 FY97: $46,256 Total: $46,256
Prin. Invest.: B LAKSHMINARARAYANA
Tech. Officer: LERC/D E ASHPIS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 2066 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8232**
DEVELOPMENT OF A SHOCK–ASSOCIATED NOISE PREDICTION SCHEME IN SUPERSONIC NOZZLES WITH CENTER BODIES
08/11/1997 – 05/31/1998 FY97: $9,501 Total: $9,501
Prin. Invest.: I DAS
Tech. Officer: LERC/E KREJSA
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 4 113 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8233**
1997 TEACHER TUTORIALS: TEACHER TRAINING & TOOLS FOR WEB–BASED SCIENCE, MATH& TECHNOLOGY ETC
01/21/1997 – 01/21/1998 FY97: $75,025 Total: $75,025
Prin. Invest.: B GRABOWSKI
Tech. Officer: DFRC/E L DUKE
CASE Category: 29 – MATH/COMPUTERSCI, OTHER

NAG 4 121 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8234**
EVALUATION OF IITA COOPERATIVE AGREEMENT PROJECTS FOR CLASS-ROOM USABILITY
03/27/1997 – 09/30/1997 FY97: $40,874 Total: $40,874
Prin. Invest.: B GRABOWSKI
Tech. Officer: DFRC/L DUKE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 100 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8235**
HIGH ANGULAR RESOLUTION X–RAY AND XUV ASTROROMY OBSERVATIONS
10/01/1980 – 06/30/1997 FY97: $0 Total: $7,402,892
Prin. Invest.: G P GARMIE
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 11 – ASTRONOMY

NAG 5 643 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8236**
OPTIMIZATION OF BALLOON FILM TOUGHNESS
04/01/1987 – 08/31/1996 FY97: $0 Total: $1,372,935
Prin. Invest.: I R HARRISON, J P HUNT
Tech. Officer: GSFC/I S SMITH, GSFC/H C NEEDLEMAN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 1678 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8237**
PRE–MAIN SEQUENCE STARS IN THE CHAMAELEON CLOUD; PRE–MAIN SEQUENCE STARS IN THE RHO OPHIUCHI CLOUD
06/27/1991 – 06/30/1996 FY97: –$136 Total: $95,342
Prin. Invest.: D FEIGELSON
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 1698 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8238**
CNO PROCESSING IN MASSIVE ALGOL BINARIES
07/15/1991 – 07/14/1997 FY97: $0 Total: $40,674
Prin. Invest.: R A WADE
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 1763 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8239**
VARIOUS ROSAT STUDIES
09/06/1991 – 09/14/1996 FY97: $0 Total: $84,599
Prin. Invest.: F A DOMINIC CORDOVA
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 1909 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8240**
THREE DIMENSIONAL STRUCTURE AND DEFORMATION OF TRA NSFORM PLATE BOUNDARIES: GOEDETIC AND MODELING.
02/24/1992 – 07/31/1997 FY97: $0 Total: $268,000
Prin. Invest.: K P FURLONG
Tech. Officer: GSFC/B G BILLS
CASE Category: 32 – GEOLOGICALSCIENCE

NAG 5 2144 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8241**
A SYSTEMATIC STUDY OF X-RAY EMISSION FROM ACTIVE S EMI-DETACHED SYSTEMS
11/23/1992 – 11/30/1996 FY97: $0 Total: $15,000
Prin. Invest.: R A WADE
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2362 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8242**
COSMOLOGICAL GAMMA-RAY BURST MODELS: SIGNATURES A ND CONSTRAINTS
09/09/1993 – 10/14/1997 FY97: $0 Total: $138,680
Prin. Invest.: P I MESZAROS
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2437 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8243**
THE ERIDION BUBBLE
11/16/1993 – 11/30/1996 FY97: $0 Total: $60,000
Prin. Invest.: D BURROWS
Tech. Officer: GSFC/DWEST
CASE Category: 11 – ASTRONOMY

NAG 5 2483 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8244**
ASCA PV PHASE DATA ANALYSIS AND FRFREAD MAINTENANC E
02/08/1994 – 02/14/1996 FY97: $0 Total: $119,060
Prin. Invest.: J NOUSEK
Tech. Officer: GSFC/N E WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2537 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8245**
ASUKA OBSERVATIONS OF THE SNR VRO 42.05.01
02/28/1994 – 09/14/1997 FY97: $0 Total: $46,000
Prin. Invest.: D N BURROWS
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2701 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8246**
AN ASSESSMENT OF THE RADIATIVE IMPACT OF CONTRAIL BASD ON ANALYSIS AND OBJECTIVE CLASSIFICATION
08/24/1994 – 08/31/1997 FY97: $53,100 Total: $193,103
Prin. Invest.: T P ACKERMAN
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2776 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8247**
CONFIRMING A HIGHLY REDSHIFTED IRON LINE IN MRK 27 9
11/07/1994 – 05/14/1996 FY97: $0 Total: $15,000
Prin. Invest.: K WEAVER
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2807 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8248**
NEUTRON STAR ATMOSPHERES
12/01/1994 – 12/14/1997 FY97: $40,000 Total: $120,000
Prin. Invest.: G PAVLOV
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2857 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8249**
PHYSICS AND COSMOLOGY OF HIGH-ENERGY SOURCES
01/23/1995 – 01/31/1998 FY97: $0 Total: $285,000
Prin. Invest.: P MESZAROS
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2927 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8250**
EVALUATION AND UNDERSTANDING PARAMETERIZED CON- VECTIVE PROCESSES AND THEIR ROLE IN THE ECT....
04/05/1995 – 04/14/1998 FY97: $33,164 Total: $94,910
Prin. Invest.: M FRITSCH
Tech. Officer: GSFC/W TAO
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2975 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8251**
THE EXTREME X-RAY TRANSIENT A0538-66
06/16/1995 – 12/31/1996 FY97: $0 Total: $10,000
Prin. Invest.: R CORBET
Tech. Officer: GSFC/N WHITE
CASE Category: 12 – CHEMISTRY

NAG 5 3040 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8252**
CHROMOSPHERIC DOPPLER IMAGING AND THE SEARCH FOR THE MAG-NETIC CYCLE IN AR LACERT
08/01/1995 – 08/14/1997 FY97: $0 Total: $36,883
Prin. Invest.: J E NEFF
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3043 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8253**
CONTINUATION OF CONVERSION OF GINGA DATABASES TO FITS DATA SETS
08/03/1995 – 08/14/1997 FY97: $0 Total: $39,300
Prin. Invest.: J A NOUSEK
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3166 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8254**
MISSION OPERATIONS AND DATA ANALYSIS FOR THE CUBIC EXPERIMENT
02/12/1996 – 05/14/1997 FY97: $215,644 Total: $458,680
Prin. Invest.: D BURROWS
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3270 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8255**
COORDINATED X-RAY AND VLBI OBSERVATIONS OF X-RAY S ELECTED BL LACERTAE OBJECTS
07/01/1996 – 12/31/1997 FY97: $0 Total: $19,096
Prin. Invest.: R KOLLGUARD
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3403 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8256**
DETAILED INVESTIGATION INTO THE USE OF PLANETARY NEBULAE AS STANDARD CANDLES
09/10/1996 – 09/14/1997 FY97: $0 Total: $79,402
Prin. Invest.: R CLARDULLO
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3404 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8257**
X-RAY EMISSION AND EARLY STELLAR EVOLUTION
09/09/1996 – 03/14/1998 FY97: $0 Total: $34,126
Prin. Invest.: E FEIGELSON
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3459 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8258**
ADVANCED SPECTRUM MODELLING OF ACRETION DISKS FOR CLOSE BINARY STAR
10/10/1996 – 04/30/1997 FY97: $98,198 Total: $98,198
Prin. Invest.: R A WADE
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3489 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8259**
A MULTIWAVELENGTH STUDY OF THE LOOP I SUPERBUBBLE
11/01/1996 – 10/31/1997 FY97: $31,250 Total: $31,250
Prin. Invest.: D N BURROWS
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3654 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8260**
PLANETARY HABITABILITY
03/25/1997 – 09/30/1997 FY97: $83,000 Total: $83,000
Prin. Invest.: D F KASTING
Tech. Officer: GSFC/M MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 3707 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8261**
PLANT GRAVITROPISMS AND THE ROLE OF EXPANSINS
12/05/1996 – 10/31/1997 FY97: $120,159 Total: $120,159
Prin. Invest.: D J COSGROVE
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 3801 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8262**
COSMOLOGICAL GAMMA RAY BURST MODELS: SIGNATURES AN
11/27/1996 – 11/30/1997 FY97: $25,000 Total: $25,000
Prin. Invest.: P MESZAROB
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3856 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8263**
ASSESSING THE IMPACT OF EXPANDINDG URBAN LAND USE USING REMOTE SENSING DATA & PHYSCIALLY BASED SOIL
12/19/1996 – 12/14/1997 FY97: $109,427 Total: $109,427
Prin. Invest.: G W PETERSEN
Tech. Officer: GSFC/A J TUYAHOV
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3970 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8264**
USE OF ARABIDOPSIS TRANSPOSON MUTANTS IN THE STUDY
03/05/1997 – 02/28/1998 FY97: $154,409 Total: $154,409
Prin. Invest.: N V FEDOROFF
Tech. Officer: GSFC/T SCOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 3976 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8265**
SIMULATION OF ATMOSPHERIC OXYGEN IN THE COMMUNITY
02/26/1997 – 05/31/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: R NAJJAR
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4018 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8266**
PROVIDES FUNDING FOR YEAR ONE/INCREMENTAL FOR YEAR TWO
02/28/1997 – 02/28/1999 FY97: $80,000 Total: $80,000
Prin. Invest.: C RUT
Tech. Officer: GSFC/D M LE VINE, GSFC/L L THOMPSON
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 4165 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8267**
EXPERIMENTAL RHEOLOGY OF THE VENUSIAN LITHOSPHERE
03/28/1997 – 02/28/1998 FY97: $88,104 Total: $88,104
Prin. Invest.: D MACKWELL
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4301 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8268**
A STUDY OF PLANETARY SYSTEMS AROUND NEUTRON STARS
04/09/1997 – 02/28/1998 FY97: $55,000 Total: $55,000
Prin. Invest.: D WOLSZCZAN
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4349 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8269**
PARENT MOLECULES IN COMET C/1995 01 (HALE BOPP)
04/17/1997 – 02/28/1999 FY97: $43,105 Total: $43,105
Prin. Invest.: D P WOMACK
Tech. Officer: GSFC/W HUEBNER
CASE Category: 11 – ASTRONOMY

NAG 5 4553 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8270**
THE GLOBAL WATER CYCLE: EXTENSION ACROSS THE EART
06/12/1997 – 03/31/1998 FY97: $1,621,984 Total: $1,621,984
Prin. Invest.: E BARRON
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4801 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8271**
A TARGET OF OPPORTUNITY PROPOSAL FOR FLARING BLAZA
08/09/1997 – 07/31/1998 FY97: $16,955 Total: $16,955
Prin. Invest.: J PESCE
Tech. Officer: GSFC/J NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 4826 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8272**
AN ASCA OBSERVATION OF MARKARIAN 6: COMPLEX ABSORP REGION
06/20/1997 – 06/30/1998 FY97: $14,800 Total: $14,800
Prin. Invest.: W BRANDT
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 4840 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8273**
THE REGENERATING PROTOPLAST AS A SINGLE CELL MODEL IN PLANTS
06/26/1997 – 05/31/1998 FY97: $131,396 Total: $131,396
Prin. Invest.: R CYR
Tech. Officer: GSFC/M AVERNER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 4927 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8274**
"EFFECTS OF BEDREST ON FOREARM MUSCLE REFLEXES"
06/23/1997 – 02/28/1998 FY97: $117,442 Total: $117,442
Prin. Invest.: L SINOWAY
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 5015 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8275**
COORDINATED STUDIES OF EQUATORIAL MESOSPHERIC & LOWER THERMOSPHERIC DYNAMICSBY ROCKET & CADRE
05/28/1993 – 12/31/1997 FY97: $0 Total: $152,688
Prin. Invest.: J D RUSSELL
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 5035 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8276**
COORDINATED ROCKET AND GROUND–BASED STUDIES OF HIGH–LATITUDE FINE–SCALE STRUCTURE IN ION/SODIUM..
04/19/1995 – 12/31/1997 FY97: $143,987 Total: $437,849
Prin. Invest.: T J KANE
Tech. Officer: GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 5065 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8277**
HIGH ENERGY ANTIMATTER TELESCOPE (HEAT) FIRST YEAR OF FUNDING FOR GRANT
05/03/1996 – 11/30/1997 FY97: $190,000 Total: $317,000
Prin. Invest.: J J BEATTY
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5093 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8278**
RESEARCH IN X–RAY ASTRONOMY
11/22/1996 – 09/30/1998 FY97: $762,573 Total: $762,573
Prin. Invest.: D BURROWS, G P GARMIRE
Tech. Officer: GSFC/W GURKIN
CASE Category: 13 – PHYSICS

NAG 5 5136 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8279**
SPIRIT: STUDENT PROJECTS INVOLVING ROCKET INVESTIGATION TECHNIQUES
04/14/1997 – 10/13/1999 FY97: $35,000 Total: $35,000
Prin. Invest.: J D MITCHELL
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 – PHYSICS

NAG 5 5145 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8280**
CHARACTERIZATION OF SIGMA–0 BLOOMS AS CONSTRAINTS ON TOPEX MICROWAVE RADIOMETER CALM WATER EMISSION
06/17/1997 – 06/30/1998 FY97: $55,802 Total: $55,802
Prin. Invest.: N WHITE
Tech. Officer: GSFC/D VANDEMARK
CASE Category: 11 – ASTRONOMY

NAG 5 6023 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8281**
X–RAY MONITORING OF STRONG VARIABILITY IN THE ULTR NARROW–LINE SEYFERT 1 GALAXY RX J0947.0+4721
08/21/1997 – 08/31/1998 FY97: $8,100 Total: $8,100
Prin. Invest.: W BRANDT
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 6194 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8282**
– REMOTELY SENSED INDEX OF DEFORESTATION/URBANIZAT MODELS
08/28/1997 – 12/31/1997 FY97: $110,000 Total: $110,000
Prin. Invest.: T CARLSON
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6197 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8283**
DEVELOPMENT OF NANOTECHNOLOGY SENSORS FOR SPACE AP ENTED FALLING SPHERE FOR THE MEASUREMENT OF DENSI
08/26/1997 – 05/31/1998 FY97: $65,053 Total: $65,053
Prin. Invest.: D L CROSKEY
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 6199 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8284**
"THE BIOMECHANICS OF EXERCISE COUNTERMEASURES"
08/12/1997 – 02/14/1998 FY97: $137,378 Total: $137,378
Prin. Invest.: P CAVANAGH
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 11 – ASTRONOMY

NAG 5 6207 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8285**
MECHANISM OF LENGTH–OF–DAY VARIABILITY
08/01/1997 – 07/31/1998 FY97: $55,851 Total: $55,851
Prin. Invest.: S FELDSTEIN
Tech. Officer: GSFC/H FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 6357 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8286**
SOIL MOISTURE, SUBSURFACE STORAGE AND RUNOFF AS A DYNAMICAL SYSTEM
09/29/1997 – 09/14/1998 FY97: $63,500 Total: $63,500
Prin. Invest.: C DUFFY
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 8 953 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8287**
ELECTROPHORETIC SEPARATION OF CELLS AND PARTICLES FROM RAT PITUITARY AND RATSPLEEN.
02/19/1993 – 03/31/1996 FY97: $0 Total: $524,522
Prin. Invest.: W C HYMER, A M MASTRO
Tech. Officer: MSFC/R C DARTY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 8 1170 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8288**
STUDY OF FRICTIONAL BEHAVIOR OF IVD ALUMINUM COATED SURFACES IN RELATION TO THE TORQUE TENSION
04/01/1996 – 03/31/1997 FY97: $0 Total: $70,000
Prin. Invest.: L CHANG*Prin. Invest.:* NONE
Tech. Officer: MSFC/P B HALL, MSFC/T R JETT
CASE Category: 47 – METAL & MATERIALSENGR

NAG 8 1272 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8289**
GRAVITATIONAL EFFECT ON THE DEVELOPMENT OF LASER WELDPOOL AND SOLIDIFICATIONMICROSTRUCTURE
05/09/1996 – 05/22/1998 FY97: $75,000 Total: $225,000
Prin. Invest.: J SINGH
Tech. Officer: MSFC/M VLASSE, MSFC/D R WOODARD
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1286 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8290**
JOVE RESEARCH
01/21/1997 – 08/31/1998 FY97: $28,269 Total: $28,269
Prin. Invest.: G SUBRAMANIAM
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 1321 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8291**
RESEARCH FOR ANTIPROTON TRAPPING FOR ADVANCED SPACE PROPULSION APPLICATIONS
01/29/1997 – 01/31/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: G A SMITH
Tech. Officer: MSFC/W J EMRICH, JR.
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 1364 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8292**
R/S "FURTHER STUDIES OF SOME SPACESHUTTLE TRIBOLOGICAL PROBLEMS"
05/15/1997 – 06/30/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: L CHANG
Tech. Officer: MSFC/P B HALL, MSFC/T R JETT
CASE Category: 49 – ENGINEERING, OTHER

NAG 8 1398 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8293**
COMBUSTION MEASUREMENTS IN MULTI–FUEL, THOTTLEABLE OMS ENGINES
08/01/1997 – 10/31/1997 FY97: $75,000 Total: $75,000
Prin. Invest.: W E ANDERSON
Tech. Officer: MSFC/H TRINH
CASE Category: 13 – PHYSICS

NAGW 1196 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8294**
CENTER FOR THE COMMERCIAL DEVELOPMENT OF SPACE
10/16/1987 – 01/31/1997 FY97: $0 Total: $12,971,608
Prin. Invest.: W HYMER, A MAESTRO
Tech. Officer: HQ/W A ORAN, HQ/A VILLAMIL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 1356 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8295**
CENTER FOR SPACE PROPULSION ENGINEERING
07/18/1988 – 12/31/1998 FY97: $49,439 Total: $8,940,743
Prin. Invest.: C L MERKLE
Tech. Officer: HQ/E E VANLANDINGHAM
CASE Category: 49 – ENGINEERING, OTHER

NAGW 1381 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8296**
ADVANCED HIGH TEMPERATURE COMPOSITE MATERIALS
10/07/1988 – 12/31/1996 FY97: $0 Total: $3,114,000
Prin. Invest.: R E TRESSLER, J R HELLMAN, H T HAHN
Tech. Officer: HQ/B F QUIGLEY, HQ/T W CROOKER
CASE Category: 47 – METAL & MATERIALS ENGR

NAGW 1522 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8297**
STUDIES OF HIGH ENERGY COMPACT SOURCES & RADIATION
11/30/1988 – 11/30/1995 FY97: –$48 Total: $420,952
Prin. Invest.: P I MESZAROS
Tech. Officer: HQ/L J KALUZIENSKI, HQ/A N BUNNER
CASE Category: 11 – ASTRONOMY

NAGW 1911 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8298**
NAGW–1911/PENNSYLVANIA STATE UNIV/CONSTRAINTS IMPO SED BY PALEOENVIRONMENTS ON THE ORIGIN & EVOLUTIO
02/06/1990 – 06/30/1997 FY97: $0 Total: $512,546
Prin. Invest.: J F KASTING
Tech. Officer: HQ/J D RUMMEL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 2120 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8299**
MULTI WAVELENGTH AND STATISTICAL RESEARCH IN SPACE ASRTOPHYSICS
06/13/1990 – 12/31/1995 FY97: $0 Total: $691,019
Prin. Invest.: E D FEIGELSON
Tech. Officer: HQ/G S KUTTER, HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 2603 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8300**
SPATIAL STRUCTURE AND DYNAMICS OF OUTER STELLAR ATMOSPHERES
08/06/1991 – 04/30/1997 FY97: $0 Total: $487,229
Prin. Invest.: J E NEFF
Tech. Officer: HQ/G S KUTTER, HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 2686 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8301**
NAGW-2686/PENN STATE UNIV/GLOBAL WATER CYCLE: EXTENSION ACROSS THE EARTH SCIENCES
08/02/1991 – 08/31/1997 FY97: $0 Total: $9,009,889
Prin. Invest.: E J BARRON
Tech. Officer: HQ/J C DODGE, HQ/W S WILSON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 2712 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8302**
PENNSYLVANIA STATE PARTICIPATING IN THE MINIMETER WAVE ATMOSPHERIC SOUNDER EXPERIMENT IN THE SPACE
09/04/1991 – 06/30/1997 FY97: $0 Total: $120,442
Prin. Invest.: J J OLIVERO
Tech. Officer: HQ/J A KAYE, HQ/R E MURPHY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3159 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8303**
A DETAILED INVESTIGATION INTO THE USE OF PLANETARY NEBULAE AS STANDARD CANDLES
08/10/1992 – 07/31/1996 FY97: $0 Total: $279,203
Prin. Invest.: R CIARDULLO
Tech. Officer: HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 3171 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8304**
ADVANCED SPECTRUM MODELLING OF ACCRETION DISKS FOR CLOSE BINARY STARS
08/14/1992 – 09/30/1997 FY97: $0 Total: $371,735
Prin. Invest.: R WADE
Tech. Officer: HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 3333 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8305**
NAGW-3333/PENNSYLVANIA STATE UNIV UP/MECHANISM OF DIFFERENTIAL GROWTH DURINGGRAVITROPSIM
01/15/1993 – 05/31/1997 FY97: $0 Total: $298,711
Prin. Invest.: D J COSGROVE*Prin. Invest.:* NONE
Tech. Officer: HQ/T W HALSTEAD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 3405 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8306**
PLANETS AROUND NEUTRON STARS
02/16/1993 – 02/28/1998 FY97: $0 Total: $220,000
Prin. Invest.: A WOLSZCZAN
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3415 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8307**
INFRARED SPECTROSCOPY OF JUPITER AND SATURN
03/09/1993 – 06/30/1997 FY97: $0 Total: $357,667
Prin. Invest.: R F KNACKE
Tech. Officer: HQ/H C BRINTON
CASE Category: 11 – ASTRONOMY

NAGW 4124 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8308**
SPATIAL DISTRIBUTION OF CARBON MONOXIDE AND OTHER TRACE MINERALS
08/30/1994 – 08/31/1997 FY97: $0 Total: $242,105
Prin. Invest.: R KNACKE
Tech. Officer: HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NAGW 4250 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8309**
A REMOTELY SENSED INDEX OF DEFORESTATION/URBANIZAT ION FOR USE IN CLIMATE MODELS
01/20/1995 – 06/30/1997 FY97: $0 Total: $231,755
Prin. Invest.: T N CARLSON
Tech. Officer: HQ/M Y WEI, HQ/J S THEON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4309 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8310**
ADVANCED DESIGN PROGRAM
02/22/1995 – 05/31/1996 FY97: $0 Total: $17,350
Prin. Invest.: R G MELTON
Tech. Officer: HQ/A S MCGEE, HQ/G JOHNSTON
CASE Category: 49 – ENGINEERING, OTHER

NAGW 4401 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8311**
SOIL MOISTURE SUBSURFACE STORAGE AND RUNOFF AS A L OW DIMENSIONL SYSTEM
04/20/1995 – 02/28/1998 FY97: $40,000 Total: $224,000
Prin. Invest.: C J DUFFY, J P CUSMANO, J A LYNCH
Tech. Officer: HQ/M Y WEI, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4421 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8312**
THE BIOMECHANICS OF EXERCISE COUNTERMEASURES
04/17/1995 – 09/30/1997 FY97: $0 Total: $196,663
Prin. Invest.: P R CAVANAGH
Tech. Officer: HQ/F SULZMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4520 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8313**
DEFORMATION OF DRY DIABASE: IMPLICATIONS FOR TECTONICS ON VENUS
05/30/1995 – 08/31/1997 FY97: $0 Total: $128,190
Prin. Invest.: S MACKWELL
Tech. Officer: HQ/H BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 4793 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8314**
NAGW-4793/PENN STATE UNIV/STATISTICAL CHALLENGES IN MODERN ASTRONOMY II CONFERENCE
09/22/1995 – 12/31/1996 FY97: $0 Total: $15,000
Prin. Invest.: G J BABU
Tech. Officer: HQ/L J CAROFF, HQ/L J CAROFF
CASE Category: 11 – ASTRONOMY

NAGW 4839 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8315**
FACILITATED BLOOD PRESSURE CONTROL/SKIN COOLING: AUTONO MECH
11/22/1995 – 07/31/1997 FY97: $0 Total: $110,554
Prin. Invest.: J A PAWELCZYK
Tech. Officer: HQ/V SCHNEIDER
CASE Category: 56 – MEDICL

NAGW 5057 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8316**
DEVLPMT OF NANOTECH SENSORS FOR SPACE APPL: AN INS TRUMENTED FALLING SPHERE FOR THE MEAS OF SENSITY,
05/16/1996 – 05/31/1997 FY97: $0 Total: $64,087
Prin. Invest.: C L CROSKEY
Tech. Officer: HQ/M M MELLOT, HQ/G L WITHBROE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 5162 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8317**
LAND–USE IN AMAZONIA CONTRIBVUTION TO A GIS DATABA SE
09/09/1996 – 10/31/1997 FY97: $0 Total: $50,000
Prin. Invest.: C UHL, D NEPSTAD
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 5184 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8318**
INVESTIGATION OF ISOTOPIC EVIDENCE FOR ACTIVE PLANKTOMIC BIOTA IN PRECAMBRIAN
09/25/1996 – 06/30/1997 FY97: $9,480 Total: $9,480
Prin. Invest.: L R KUMP
Tech. Officer: HQ/M MEYER, HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 5254 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8319**
SPACE–TIME SCALING OF WATER TRANSFERS BETWEEN THE LAND SURFACE AND THE LOWERATMOSPHERE
11/07/1996 – 07/31/1997 FY97: $76,447 Total: $76,447
Prin. Invest.: A P BARROS*Prin. Invest.:* NONE
Tech. Officer: HQ/G ASRAR, HQ/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG10 187 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8320**
IMPROVING LIGHTNING FORECASTS FOR THE SPACE PROGRAM
03/26/1996 – 09/30/1997 FY97: $28,672 Total: $40,550
Prin. Invest.: G S FORBES, S HORRART, NONE
Tech. Officer: KSC/L MAIER, KSC/J MADURA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG10 192 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8321**
ENVIRONMENTALLY ACCEPTABLE REPLACEMENT FOR LDX CLEANING SOLVENTS
04/23/1996 – 04/30/1998 FY97: $50,000 Total: $100,000
Prin. Invest.: W E ANDERSON
Tech. Officer: KSC/C E MCCASKEY
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAG10 205 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8322**
STUDY "GRAVITY EFFECTS ON SEEDLING MORPHOGENESIS"
01/28/1997 – 01/28/1998 FY97: $124,356 Total: $124,356
Prin. Invest.: D J COSGROVE
Tech. Officer: KSC/W M KNOTT
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAS 5 31787 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8323**
DESIGN & DEVELOPMENT OF DIGITAL PROCESSING UNIT
10/01/1991 – 09/30/1998 FY97: $0 Total: $937,600
Prin. Invest.: F CORDORA
Tech. Officer: GSFC/R DONNELLY
CASE Category: 42 – ASTRONAUTICAL ENGR

NAS 5 32669 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8324**
A NATIONAL STATISTICAL CONSULTING CENTER FOR THE ASTRONOMICAL COMMUNITY
07/27/1994 – 08/27/1996 FY97: $0 Total: $60,000
Prin. Invest.: M AKRITAS
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAS 8 38252 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8325**
AXAF CCD IMAGING SPECTROMETER
06/27/1990 – 11/30/1999 FY97: $1,119,000 Total: $4,415,000
Prin. Invest.: G P GARMERE
Tech. Officer: MSFC/N B CUMINGS
CASE Category: 11 – ASTRONOMY

NAS 8 38862 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8326**
AN EXPERIMENTAL STUDY OF CHARACTERISTIC COMBUSTION DRIVEN FLOW FOR CFD VALIDATION
04/16/1991 – 04/15/1996 FY97: $0 Total: $625,000
Prin. Invest.: R J SANTORO
Tech. Officer: MSFC/G A WILHOLD, MSFC/P K TUCKER
CASE Category: 41 – AERONAUTICAL ENGNR

NAS 8 39945 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8327**
FUEL STUDIES
05/04/1994 – 06/30/1996 FY97: $0 Total: $346,796
Prin. Invest.: K K KUO
Tech. Officer: MSFC/R J HARWELL, MSFC/R L NICHOLS
CASE Category: 49 – ENGINEERING, OTHER

NAS 8 40890 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8328**
R/S "EXPERIMENTAL & ANALYTICAL MODELING OF THE ROCKET EJECTOR MODE"
09/04/1996 – 08/31/1998 FY97: $126,000 Total: $433,458
Prin. Invest.: C MERKLE, R SANTORO
Tech. Officer: MSFC/U HUETER/J TURNER
CASE Category: 41 – AERONAUTICAL ENGNR

NAS 9 19573 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8329**
MISSION SUPPORT SERVICES OF DR JAMES PAWELCZYK
09/30/1996 – 04/28/1998 FY97: $275,000 Total: $275,000
Prin. Invest.: D A PAWELCZYK
Tech. Officer: JSC/K E NEWKIRK
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 1 249 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8330**
DAMAGE MONITORING AND LIFE EXTENDING CONTROL OF AI AIRCRAFT STRUCTURES
01/17/1997 – 01/16/1998 FY97: $60,559 Total: $60,559
Prin. Invest.: A RAY
Tech. Officer: LARC/S M JOSHI
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 370 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8331**
"MICROGRAVITY–INDUCED EFFECT ON PITUITARY GROWTH HORMONE CELL FUNCTION: A MECHANISM FOR MUSCLE ATRO
11/01/1987 – 12/31/1995 FY97: –$1,000 Total: $673,784
Prin. Invest.: W C HYMER, R E GRINDELAND, D R MORRISON
Tech. Officer: ARC/C M WINGET, ARC/R W BALLARD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 2 916 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8332**
A VISION–BASED OBSTACLE DETECTION SYSTEM FOR AIRCR AFT NAVIGATION
07/25/1995 – 02/28/1998 FY97: $25,829 Total: $217,408
Prin. Invest.: R KASTURI, O CAMPS
Tech. Officer: ARC/A H NULL, ARC/A J AHUMADA
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 943 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8333**
PENN STATE ROTORCRAFT CENTER OF EXCELLENCE
02/26/1996 – 12/31/1997 FY97: $432,880 Total: $816,798
Prin. Invest.: F C SMITH, L N LONG
Tech. Officer: ARC/Y H YU, ARC/J M DAVIS
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 3 481 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8334**
INELASTIC SURFACES FOR METAL MATRIX COMPOSITES UNDER AXIAL TORSIONAL LOADINGAT ELEVATED TEMPERATURE
07/25/1996 – 11/30/1997 FY97: $65,000 Total: $70,063
Prin. Invest.: C J LISSENDEN
Tech. Officer: LERC/B A LERCH, LERC/S M ARNOLD
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 8 46 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8335**
TRIPROPELLANT COMBUSTION AND OXYGEN RICH ROCKET COMBUSTOR TECHNOLOGIES
03/15/1996 – 12/01/1997 FY97: $569,705 Total: $1,788,420
Prin. Invest.: R J SANTORO
Tech. Officer: MSFC/H P TRINH
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 8 109 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8336**
CONTROL OF MIXING AND COMBUSTION IN COMBINED CYCLE ENGINES
06/06/1996 – 08/31/1997 FY97: $35,000 Total: $50,000
Prin. Invest.: C L MERKLE
Tech. Officer: GSFC/J HOWELL
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 8 110 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8337**
RS/ A FOCUSED SYSTEM CONCEPT DEFINITION STUDY
07/25/1996 – 09/30/1997 FY97: $35,000 Total: $50,000
Prin. Invest.: R J SANTORO
Tech. Officer: MSFC/J T HOWELL
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 10034 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8338**
USERC GRADUATE STUDENT ASSISTANTSHIPS
01/09/1995 – 12/31/1998 FY97: $81,080 Total: $940,914
Prin. Invest.: C MERKLE
Tech. Officer: HQ/V BITTINGER
CASE Category: 49 – ENGINEERING, OTHER

NGT 30122 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8339**
NGT-30122/PENN STATE UNIV/GLOBAL CHANGE FELLOWSHIP PROGRAM
11/02/1992 – 05/31/1996 FY97: -$165 Total: $65,835
Prin. Invest.: G E TUCKER, NONE
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 30280 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8340**
NGT-30280/PENNSYLVANIA STATE UNIV/GLOBAL CHANGE FELLOWSHIP PROGRAM
10/02/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: D LAMB
Tech. Officer: HQ/J S THEON, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30314 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8341**
GLOBAL CHANGE FELLOWSHIP PROGRAM
09/01/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: W H BRUNE
Tech. Officer: HQ/R A SCHIFFER, HQ/G ASRAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 40002 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8342**
NATIONAL SPACE GRANT COLLEGE & FELLOWSHIP PROGRAM
09/28/1989 – 09/30/1997 FY97: $0 Total: $2,880,044
Prin. Invest.: R DEVON
Tech. Officer: HQ/L T KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51016 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8343**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/23/1993 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: M K HEID
Tech. Officer: HQ/D V GALLAWAY
CASE Category: 21 – MATHEMATICS

NGT 51106 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8344**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/14/1993 – 12/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: G KOODMANN
Tech. Officer: HQ/J T LYNCH
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51118 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8345**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/24/1993 – 06/30/1996 FY97: -$5,589 Total: $60,411
Prin. Invest.: L N LONG
Tech. Officer: LARC/E PRIOR
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51119 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8346**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/09/1993 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: V YANG
Tech. Officer: MSFC/F SIX
CASE Category: 46 – MECHANICAL ENGR

NGT 51125 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8347**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/07/1993 – 09/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: D BURROWS
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51131 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8348**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/22/1993 – 06/30/1996 FY97: $0 Total: $66,000
Prin. Invest.: H R ALLOCK
Tech. Officer: LERC/F MONTEGANI
CASE Category: 12 – CHEMISTRY

NGT 51165 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8349**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/22/1993 – 08/14/1996 FY97: $0 Total: $66,000
Prin. Invest.: D A SANTAVICCA
Tech. Officer: MSFC/F SIX
CASE Category: 46 – MECHANICAL ENGR

NGT 51226 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8350**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/16/1994 – 08/15/1997 FY97: $0 Total: $44,000
Prin. Invest.: C A BERNECKER
Tech. Officer: KSC/W CAMP
CASE Category: 49 – ENGINEERING, OTHER

NGT 51316 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8351**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/14/1994 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: A WOLSZCZAN
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51384 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8352**
GSRP
06/16/1995 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: J F KASTING
Tech. Officer: HQ/D HOLLAND
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NGT 51406 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8353**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/07/1995 – 07/31/1998 FY97: $0 Total: $44,000
Prin. Invest.: J E NEFF
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51638 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8354**
GRAD STUDENT RESEARCH PROGRAM
08/15/1996 – 06/30/1998 FY97: $0 Total: $22,000
Prin. Invest.: J CHARLTON
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51648 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8355**
GRAD STUD RES PROG
08/05/1996 – 09/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: C CROSKEY
Tech. Officer: HQ/D HOLLAND
CASE Category: 45 – ELECTRICAL ENGR

NGT 51683 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8356**
GRAD STUD RES PROG
08/02/1996 – 07/31/1997 FY97: $0 Total: $22,000
Prin. Invest.: P WALKER
Tech. Officer: HQ/G LESANE
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 1 52109 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8357**
GRADUATE STUDENT RESEARCHER PROGRAM (GSRP)
06/15/1995 – 06/30/1998 FY97: $10,000 Total: $54,000
Prin. Invest.: E C SMITH, A T HOWARD
Tech. Officer: LARC/M W NIXON
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 1 52166 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8358**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/22/1997 – 06/30/1998 FY97: $11,000 Total: $11,000
Prin. Invest.: D B BAKER
Tech. Officer: LARC/J B MALONE, LARC/C V ECKSTROM
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 30066 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8359**
GLOBAL CHANGE FELLOWSHIP PRGM: ATMOSPHERIC OXIDATI THE HYDROXYL RADICAL AND OTHER TRACE GAS SPECIES
09/09/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: W BRUNE
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40002 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8360**
GLOBE TEACHER TRAINING WORKSHOP/PENNSYLVANIA SPACE
01/30/1997 – 12/31/1997 FY97: $79,986 Total: $79,986
Prin. Invest.: R F DEVON
Tech. Officer: GSFC/L OSTENDORF
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40064 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8361**
SUPPORT TO PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
02/25/1997 – 01/31/1998 FY97: $387,500 Total: $387,500
Prin. Invest.: R DEVON
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50049 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8362**
THE THREE DIMENSIONAL STRUCTURE OF THE HOT INTERSTELLAR
07/17/1997 – 08/14/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D BURROWS
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50112 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8363**
GRADUATE STUDENT RESEARCH PROGRAM: STUDENT NAME:
09/04/1997 – 08/14/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: C CROYSKEY
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50113 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8364**
GRADUATE STUDENT RESEARCHERS PROGRAM – STUDENT: E
09/04/1997 – 07/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: P WALKER
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50120 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8365**
PLANETARY HABITABILITY
09/10/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J F KASTING
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50147 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8366**
AN INVESTIGATION OF COMPOSTING PLANT AND HUMAN WAS OLOGICAL LIFE SUPPORT SYSTEM (CELSS)
09/11/1997 – 07/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: S MCCLINTOCK
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 8 52800 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8367**
GRADUATE STUDEN RESEARCHS
07/28/1995 – 07/31/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: A KULKARNI, J SINGH
Tech. Officer: MSFC/B N BHAT
CASE Category: 46 – MECHANICAL ENGR

NGT 8 52813 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8368**
GRAD STUDENT RESEARCHERS PROGRAM
07/25/1996 – 07/01/1999 FY97: $22,000 Total: $44,000
Prin. Invest.: M C SHOEMAKER
Tech. Officer: MSFC/F SIX
CASE Category: 49 – ENGINEERING, OTHER

NGT 8 52821 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8369**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/31/1996 – 07/01/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: M G SCHMIDT
Tech. Officer: MSFC/G YOUNG
CASE Category: 45 – ELECTRICAL ENGR

NGT 8 52823 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8370**
GRAD STUDENT RESEARCH PROGRAM FOR MICHAEL ONDAS
09/25/1996 – 04/19/1997 FY97: $0 Total: $16,500
Prin. Invest.: M S ONDAS
Tech. Officer: MSFC/C SCHAFER
CASE Category: 45 – ELECTRICAL ENGR

NGT 8 52829 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8371**
GRAD STUDENT RESEARCHERS PROGRAM FOR GARRY ESTEP
09/25/1996 – 07/01/1999 FY97: $22,000 Total: $44,000
Prin. Invest.: M K LEHMAN
Tech. Officer: MSFC/K TUCKER
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 8 52841 PENNSYLVANIA STATE UNIV. – UNIV. PARK **8372**
R/S "GRADUATE STUDENT RESEARCH PROGRAM FELLOWSHIP"
07/29/1997 – 09/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D A SANTAVICCA
Tech. Officer: MSFC/J DOWDY
CASE Category: 46 – MECHANICAL ENGR

NAG 5 5017 ST. VINCENT COLLEGE & SEMINARY **8373**
AIRBORNE OCEANOGRAPHIC LIDAR ON LONG RANGE P–3 MISSIONS
09/24/1993 – 09/30/1996 FY97: $0 Total: $88,000
Prin. Invest.: R E BERRY
Tech. Officer: GSFC/W B KRABILL, GSFC/F E HOGE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 6238 TEMPLE UNIVERSITY **8374**
016 UTILIZATION OF NEURAL NETWORK COMPUTING FOR CO ULT DIAG-NOSIS.
09/15/1997 – 09/14/1998 FY97: $49,590 Total: $49,590
Prin. Invest.: S K BISWAS
Tech. Officer: GSFC/B C DRAKE
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 3 1858 UNIVERSITY OF PENNSYLVANIA **8375**
PHYSICS OF COLLOIDS IN SPACE
05/10/1996 – 06/24/1997 FY97: $0 Total: $498,600
Prin. Invest.: D WEITZ, P N PUSEY
Tech. Officer: LERC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 3 2058 UNIVERSITY OF PENNSYLVANIA **8376**
PHYSICS OF COLLOIDS IN SPACE COMBUSTION OF UNCONFINED DROP-LET CLUSTERS IN MICRO
07/30/1997 – 06/24/2002 FY97: $211,000 Total: $211,000
Prin. Invest.: D A WEITZ, P N PUSEY
Tech. Officer: LERC/B S SIGNH
CASE Category: 13 – PHYSICS

NAG 5 3990 UNIVERSITY OF PENNSYLVANIA **8377**
PERFORMANCE ASSESSMENT USING DYNAMIC STIMULATION A ANALYSIS FOR IVA AND EVA
02/26/1997 – 02/28/1998 FY97: $200,000 Total: $200,000
Prin. Invest.: N I BADLER
Tech. Officer: GSFC/J ELLISON
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 4274 UNIVERSITY OF PENNSYLVANIA **8378**
ENVIRONMENTAL BIOMEDICAL RESEARCH DATA CENTER
04/04/1997 – 11/30/1997 FY97: $196,200 Tota : $196,200
Prin. Invest.: J LAMBERTSEN
Tech. Officer: GSFC/R WHITE
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 6200 UNIVERSITY OF PENNSYLVANIA **8379**
CO2–02 INTERACTIONS IN EXTENSION OF TOLERANCE TO H
09/05/1997 – 03/31/1998 FY97: $120,000 Total: $120,000
Prin. Invest.: C LAMBERTSEN
Tech. Officer: GSFC/L CHAMBERS
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 8 1350 UNIVERSITY OF PENNSYLVANIA **8380**
FOR RESEARCH ENTITTLED: QUANITATIVE ANALYSIS INTER ACTIONS DURING MEMBRANE PROTEIN CRYSTALLIZATION"
06/19/1997 – 11/30/1997 FY97: $101,000 Total: $101,000
Prin. Invest.: P LOLL*Prin. Invest.:* NONE
Tech. Officer: MSFC/R CROMISE, MSFC/C R TALLEY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 9 817 UNIVERSITY OF PENNSYLVANIA **8381**
USE OF BIOACTIVE GLASS PARTICLES AS MICROCARRIERS IN MICROGRAVITY ENVIRONMENT
08/29/1995 – 09/17/1998 FY97: $185,000 Total: $540,000
Prin. Invest.: P S AYYASWAMY
Tech. Officer: JSC/N PELLIS
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 3628 UNIVERSITY OF PENNSYLVANIA **8382**
ENVIRONMENTAL BIOMEDICAL RESEARCH DATA CENTER
06/03/1993 – 11/30/1998 FY97: $0 Total: $705,579
Prin. Invest.: C J LAMBERTSEN
Tech. Officer: HQ/R J WHITE
CASE Category: 56 – MEDICL

NAGW 4359 UNIVERSITY OF PENNSYLVANIA **8383**
CO2–O2 INTERACTIONS IN EXTENSION OF TOLERANCE TO A CUTE HYPOXIA
03/10/1995 – 03/31/1997 FY97: $0 Total: $240,000
Prin. Invest.: C J LAMBERTSEN
Tech. Officer: HQ/F SULZMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NGT 51393 UNIVERSITY OF PENNSYLVANIA **8384**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/18/1995 – 08/31/1997 FY97: $0 Total: $43,220
Prin. Invest.: N H FARHAT
Tech. Officer: JPL/C HICKS
CASE Category: 45 – ELECTRICAL ENGR

NGT 70359 UNIVERSITY OF PENNSYLVANIA **8385**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/31/1993 – 08/31/1996 FY97: $0 Total: $44,000
Prin. Invest.: V KUMAR
Tech. Officer: HQ/D K RUSSELL
CASE Category: 46 – MECHANICAL ENGR

NGT 5 50109 UNIVERSITY OF PENNSYLVANIA **8386**
GRADUATE STUDENT RESEARCH PROGRAM – STUDENT: ANDR
09/11/1997 – 08/31/1998 FY97: $21,200 Total: $21,200
Prin. Invest.: N FARHAT
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 3 1403 UNIVERSITY OF PITTSBURGH **8387**
KINETIC & TRANSPORT PHENOMENA IN A MICROGRAVITY EN VIRONMENT
01/06/1993 – 12/31/1996 FY97: $0 Total: $327,000
Prin. Invest.: D JASNOW
Tech. Officer: LERC/A T CHAI
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1695 UNIVERSITY OF PITTSBURGH **8388**
LOW TEMPERATURE LUMINENCENCE, RAMAN SCATTERING, AN D RBS/ CHANNELING OF SIC CVD FILMS
01/18/1995 – 11/30/1997 FY97: $45,000 Total: $135,000
Prin. Invest.: W J CHOYKE
Tech. Officer: LERC/J A POWELL
CASE Category: 13 – PHYSICS

NAG 3 1833 UNIVERSITY OF PITTSBURGH **8389**
THE DISSOLUTION OF AN INTERFAC BETWEEN MISCIBLE LI QUIDS
05/28/1996 – 05/27/2000 FY97: –$5,000 Total: $100,000
Prin. Invest.: J V MAHER
Tech. Officer: LERC/R A WILKINSON
CASE Category: 13 – PHYSICS

NAG 3 2013 UNIVERSITY OF PITTSBURGH **8390**
WIDE–FREQUENCY & WIDE–TEMPERATURE RANGE CHARACTERI ZATION OF SOFT MAGNETIC–MATERIALS
02/24/1997 – 12/31/1997 FY97: $50,413 Total: $50,413
Prin. Invest.: W R WIESERMAN
Tech. Officer: LERC/G E SCHWARZE
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 609 UNIVERSITY OF PITTSBURGH **8391**
A SOUNDING ROCKET STUDY OF N20, N0 AND OTHER T ROD CONSTITUENTS IN THE UPPER STRATOSPHEREAND MESOSP
07/01/1982 – 11/30/1997 FY97: $0 Total: $1,589,067
Prin. Invest.: E C ZIPF, P W ERDMAN
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 661 UNIVERSITY OF PITTSBURGH **8392**
SUBORBITAL PROGRAM IN MAGNETOSPHERIC & IONSPHERIC PHYSICS
05/04/1990 – 06/30/1998 FY97: $75,000 Total: $1,006,693
Prin. Invest.: E C ZIPF
Tech. Officer: GSFC/W B JOHNSON, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 3642 UNIVERSITY OF PITTSBURGH **8393**
GEOLOGIC MAPPING OF REULL VALLIS, MARS
02/13/1997 – 09/30/1997 FY97: $19,800 Total: $19,800
Prin. Invest.: D A CROWN
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3723 UNIVERSITY OF PITTSBURGH **8394**
PHOTOMETRIC ANALYSIS OF SPACECRAFT PLANETARY IMAGE
02/12/1997 – 10/31/1997 FY97: $72,359 Total: $72,359
Prin. Invest.: S W HAPKE
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4037 UNIVERSITY OF PITTSBURGH **8395**
MODELS FOR THE EMPLACEMENT OF LAVA FLOWS: STYLES O ON MARS
02/27/1997 – 02/28/1998 FY97: $47,700 Total: $47,700
Prin. Invest.: D A CROWN
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4116 UNIVERSITY OF PITTSBURGH **8396**
ELECTRON–ION RECOMBINATION PROCESSES RELATING TO P
03/03/1997 – 12/31/1997 FY97: $113,000 Total: $113,000
Prin. Invest.: D JOHNSON
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4288 UNIVERSITY OF PITTSBURGH **8397**
ALLEGHENY OBSERVATORY SEARCH FOR PLANETARY SYSTEMS
04/15/1997 – 12/31/1997 FY97: $130,000 Total: $130,000
Prin. Invest.: D D GATEWOOD
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4848 UNIVERSITY OF PITTSBURGH **8398**
KECK MAP DYNAMICAL CHARACTERIZATION OF NEIGHBORING
09/05/1997 – 06/30/1998 FY97: $108,419 Total: $108,419
Prin. Invest.: D GATEWOOD
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 6164 UNIVERSITY OF PITTSBURGH **8399**
A CROSS DISCIPINARY LITERACY COURSE ON EARTH SYSTE IN THE 21ST CENTURY.
08/27/1997 – 07/31/1998 FY97: $20,000 Total: $20,000
Prin. Invest.: A A PANAH
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6274 UNIVERSITY OF PITTSBURGH **8400**
GLOBAL HEALTH NETWORK (GHNET)_PROJECT DEVELOPMENT
08/29/1997 – 08/31/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: R LAPORTE
Tech. Officer: GSFC/C DOARN
CASE Category: 56 – MEDICL

NAG 8 959 UNIVERSITY OF PITTSBURGH **8401**
NUCLEATION AND CHIRAL SYMETRY BREAKING UNDER HYDRODYNAMIC FLOWS
06/02/1993 – 06/14/1996 FY97: $0 Total: $120,000
Prin. Invest.: X L WU
Tech. Officer: MSFC/D NOEVER
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1049 UNIVERSITY OF PITTSBURGH **8402**
OVI EMISSION AND BROAD–BAND UV SPECTRA OF SYMBIO– TIC SYSTEMS
03/17/1994 – 02/28/1997 FY97: $0 Total: $153,537
Prin. Invest.: B R ESPEY
Tech. Officer: MSFC/J OWENS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 1073 UNIVERSITY OF PITTSBURGH **8403**
THE EXTENDED ATMOSPHERES OF WOLF–RAYET STARS
04/01/1994 – 02/28/1997 FY97: $0 Total: $170,813
Prin. Invest.: R E SCHULTE–LADBECK
Tech. Officer: MSFC/J OWENS
CASE Category: 11 – ASTRONOMY

NAG 9 835 UNIVERSITY OF PITTSBURGH **8404**
GROWTH, METABOLISM, AND DIFFERENTIATION OF MIP
09/19/1995 – 09/17/1998 FY97: $220,000 Total: $580,000
Prin. Invest.: J M JESSUP
Tech. Officer: JSC/N PELLIS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 1270 UNIVERSITY OF PITTSBURGH **8405**
SEARCH FOR PLANETARY SYSTEMS
04/15/1988 – 05/31/1997 FY97: $0 Total: $974,986
Prin. Invest.: J P WEFEL
Tech. Officer: HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NAGW 1764 UNIVERSITY OF PITTSBURGH **8406**
ELECTRON ION RECOMBINATION AND ION MOLECULE REACTION PROCESS
05/17/1989 – 09/30/1997 FY97: $100,000 Total: $732,644
Prin. Invest.: R JOHNSEN
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAGW 2060 UNIVERSITY OF PITTSBURGH **8407**
PHOTOMETRIC ANALYSIS OF SPACECRAFT PLANETARY IMAGE S
04/06/1990 – 10/31/1996 FY97: $0 Total: $453,900
Prin. Invest.: B HAPKE
Tech. Officer: HQ/T A MAXWELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3828 UNIVERSITY OF PITTSBURGH **8408**
NAGW 3828/B UNIV OF PITTSBURGH "NON–LTE LINE BLANK ETED MODEL ATMOSPHERES" 1/1/94 START
12/09/1993 – 06/30/1997 FY97: –$860 Total: $104,140
Prin. Invest.: D J HILLIER
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 3842 UNIVERSITY OF PITTSBURGH **8409**
MODELS FOR THE EMPLACEMENT OF LAVA FLOWS: STYLES O F EFFUSIVE VOLCANISM ON MARS
01/03/1994 – 06/30/1997 FY97: $0 Total: $143,118
Prin. Invest.: D CROWN
Tech. Officer: HQ/R J WILLIAMS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 4186 UNIVERSITY OF PITTSBURGH **8410**
GEOLOGICAL MAPPING OF REULL VALLIS, MARS
10/31/1994 – 06/30/1997 FY97: $0 Total: $34,755
Prin. Invest.: D A CROWN
Tech. Officer: HQ/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 4224 UNIVERSITY OF PITTSBURGH **8411**
AUTOMATIC CATALOGUING
12/09/1994 – 07/31/1996 FY97: $0 Total: $190,849
Prin. Invest.: R RYMON
Tech. Officer: HQ/R S MCGINNIS
CASE Category: 22 – COMPUTER SCIENCE

NAGW 4489 UNIVERSITY OF PITTSBURGH **8412**
GLOBAL HEALTH NETWORK PROJECT DEVELOPMENT
05/26/1995 – 03/31/1997 FY97: $0 Total: $199,999
Prin. Invest.: R LAPORTE
Tech. Officer: HQ/L WORTHINGTON
CASE Category: 56 – MEDICL

NAGW 4828 UNIVERSITY OF PITTSBURGH **8413**
U. OF PITTSBURG;A VERY HIGH PRECISION MULTICHANNEL ASTROMETRIC PHOTOMETER
10/05/1995 – 06/30/1997 FY97: $0 Total: $39,300
Prin. Invest.: G GATEWOOD, NONE
Tech. Officer: HQ/P ROGERS
CASE Category: 11 – ASTRONOMY

NAGW 5013 UNIVERSITY OF PITTSBURGH **8414**
UPGRADING THE ALLEGHENY OBSERVATORY SEARCH FOR PLA NETARY SYSTEMS
03/27/1996 – 12/31/1996 FY97: $0 Total: $60,000
Prin. Invest.: D D GATEWOOD
Tech. Officer: HQ/P ROGERS
CASE Category: 11 – ASTRONOMY

NAS 9 18404 UNIVERSITY OF PITTSBURGH **8415**
DEFINITION PHASE FOR IML-2 EXPERIMENT "HUMAN SLEEP AND CIRCADIAN RYHTHM"
11/02/1990 – 09/15/1997 FY97: $92,700 Total: $1,268,522
Prin. Invest.: T H MONK
Tech. Officer: JSC/J VILLARREAL
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAS 9 19407 UNIVERSITY OF PITTSBURGH **8416**
HUMAN CIRCADIAN RHYTHMS & SLEEP IN SPACE
10/04/1995 – 09/30/1998 FY97: $50,000 Total: $205,000
Prin. Invest.: T H MONK
Tech. Officer: JSC/J VILLAREAL
CASE Category: 56 – MEDICL

NASW 4677 UNIVERSITY OF PITTSBURGH **8417**
NASW-4677/UNIV OF PITTSBURGH/NASA RTTC LOCATED IN THE MID-ATLANTIC REGION OF THE U.S.
12/20/1991 – 12/31/1997 FY97: $0 Total: $4,481,586
Prin. Invest.: L S HUMMEL
Tech. Officer: HQ/F E PENARANDA
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51348 UNIVERSITY OF PITTSBURGH **8418**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/24/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: W L WE
Tech. Officer: HQ/G A LESANE
CASE Category: 13 – PHYSICS

NGT 5 30019 UNIVERSITY OF PITTSBURGH **8419**
PROVIDING EARTH SYSTEMS SCIENCE APPLICATIONS ACCES WIDE AREA HIGH SPEED NETWORKS
10/14/1996 – 08/31/1997 FY97: $44,000 Total: $44,000
Prin. Invest.: D TIPPER
Tech. Officer: GSFC/G ASRAR
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NGT 5 50029 UNIVERSITY OF PITTSBURGH **8420**
VESTIBULAR INFLUENCES ON SYMPATHETIC OUTFLOWS TO D SCULAR BEDS
09/06/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: B YATES
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 980 VILLANOVA UNIVERSITY **8421**
SIMULTANEOUS IUE & MAGNETIC OBSERVATIONS OF A SELECTED YOUNG DWARF
09/01/1987 – 03/31/1997 FY97: $0 Total: $99,258
Prin. Invest.: C AMBRUSTER
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2160 VILLANOVA UNIVERSITY **8422**
1) THE PAST, PRESENT AND FUTURE SUN: AN IUE INVES T., OF SOLAR PROXIES 2) UV CHROMOSPHERIC .. .
12/31/1992 – 01/31/1998 FY97: $0 Total: $43,200
Prin. Invest.: E F GUINAN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2278 VILLANOVA UNIVERSITY **8423**
EUVE SPECTROSCOPY OF EXPOSED WD'S IN 3 CATACLYSMIC VARIABLES: PROBING ACCRETION PHYSICS FOR. . .
05/26/1993 – 08/14/1997 FY97: $0 Total: $71,114
Prin. Invest.: E SION
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 2279 VILLANOVA UNIVERSITY **8424**
CORONAL SPECTROSCOPY AND OUTER ATMOSPHERIC MODELLI NG OF ZERO-AGE-MAIN-SEQUENCE K DWARFS
07/15/1993 – 10/31/1997 FY97: $0 Total: $154,868
Prin. Invest.: C W AMBRUSTER
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 2413 VILLANOVA UNIVERSITY **8425**
CORONAL STRUCTURE, ROTATION AND ACTIVITY: A TEST USING PLEIADES – AGE K DWARFS
11/02/1993 – 11/14/1995 FY97: $0 Total: $5,500
Prin. Invest.: C AMBRUSTER
Tech. Officer: GSFC/PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2462 VILLANOVA UNIVERSITY **8426**
IUE OBSERVATIONS OF AN X-RAY ANOMALOUS A-TYPE GIAN T
01/11/1994 – 01/14/1998 FY97: $0 Total: $2,500
Prin. Invest.: J SIAH
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2494 VILLANOVA UNIVERSITY **8427**
EVOLUTION OF SOLAR CORONAL X-RAY EMISSION: ROSAT OBSERVATIONS OF SOLAR PROXIES
02/03/1994 – 02/14/1998 FY97: $0 Total: $39,975
Prin. Invest.: E F GUINAN
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2707 VILLANOVA UNIVERSITY **8428**
THE SUN IN TIME: THE HIGH-TEMPERATURE CORONAL STR UCTURE OF SOLAR TYPE STARS
08/31/1994 – 03/14/1998 FY97: $0 Total: $53,191
Prin. Invest.: E GUINAN
Tech. Officer: GSFC/N E WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3136 VILLANOVA UNIVERSITY **8429**
EVOLUTION OF THE CORONAL STRUCTURE OF THE SUN IN T IME
11/01/1995 – 11/14/1997 FY97: $0 Total: $52,646
Prin. Invest.: E F GUINAN
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 3221 VILLANOVA UNIVERSITY **8430**
SPACE SPECTROSCOPY OF THE WHITE DWARFS IN CATACLYSMIC VARIABLES: PROBES OF ACCRETION PROCES
05/08/1996 – 06/30/1997 FY97: $37,500 Total: $82,200
Prin. Invest.: SION
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3539 VILLANOVA UNIVERSITY **8431**
THE PROPERTIES OF INTERSTELLAR DUST AND APPLICATIO NS TO ASTROPHYSICAL PROBLEMS (NO COST TIMEEXTEN)
11/13/1996 – 08/31/1998 FY97: $105,000 Total: $105,000
Prin. Invest.: J CARDELLI
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4520 VILLANOVA UNIVERSITY **8432**
THE SUN IN TIME: ACTIVITY CYCLES OF THE YOUNG AND BETA HYDRI
07/03/1997 – 06/30/1998 FY97: $3,300 Total: $3,300
Prin. Invest.: E GUINAN
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAGW 4607 VILLANOVA UNIVERSITY **8433**
THE PROPERTIES OF INTERSTELLAR DUST AND APPLICATIO NS TO ASTROPHYSICAL PROBLEMS
06/29/1995 – 08/31/1997 FY97: $0 Total: $100,000
Prin. Invest.: V SOFIA
Tech. Officer: HQ/G RIEGLER
CASE Category: 11 – ASTRONOMY

NAG 5 6080 WEST CHESTER UNIV OF PA **8434**
WEST CHESTER UNIVERSITY CONCEPTS & PEDAGOGICAL
08/27/1997 – 08/14/1998 FY97: $19,625 Total: $19,625
Prin. Invest.: R M BUSCH
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

RHODE ISLAND

NAG 1 1145 BROWN UNIVERSITY **8435**
MULTI–DIMENSIONAL HIGH ORDER ESSENTIALLY NON— OSCILLATORY FINITE DIFFERENCE METHODS IN GEN COORD
05/23/1990 – 05/31/1998 FY97: $16,437 Total: $140,501
Prin. Invest.: C W SHU
Tech. Officer: LARC/H L ATKINS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1932 BROWN UNIVERSITY **8436**
REGRESSION MODELS AND ALGORITHMS FOR AERODYNAMICS APPLICATIONS
05/30/1997 – 05/31/1998 FY97: $20,000 Total: $20,000
Prin. Invest.: A E PEARSON
Tech. Officer: LARC/P C MURPHY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 830 BROWN UNIVERSITY **8437**
THREE–DIMENSIONAL USER INTERFACES FOR SCIENTIFIC V ISUALIZATION
04/02/1993 – 03/31/1997 FY97: $0 Total: $400,000
Prin. Invest.: A DAM
Tech. Officer: ARC/A VAZIRI, ARC/M G YAMASAKI
CASE Category: 22 – COMPUTER SCIENCE

NAG 3 1484 BROWN UNIVERSITY **8438**
MIXING ENHANCEMENT IN HIGH SPEED JET FLOWS THROUGH NONLINEAR MULTIPLE–FREQUENCY MODE INTERACTIONS
05/04/1993 – 07/31/1998 FY97: $0 Total: $220,200
Prin. Invest.: J T LIU
Tech. Officer: LERC/M D DAHL
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1927 BROWN UNIVERSITY **8439**
DYNAMICS AND MORPHOLOGY OF SUPERFLUID HELIUM DROPS IN A MICROGRAVITY ENVIRONMENT
07/24/1996 – 07/24/2000 FY97: $50,000 Total: $200,000
Prin. Invest.: G M SEIDEL, H MARIS
Tech. Officer: LERC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 3 1929 BROWN UNIVERSITY **8440**
KINETIC AND THERMODYNAMIC STUDIES OF MELTING–FREEZ ING OF HELIUM MICROGRAVITY
07/24/1996 – 07/24/2000 FY97: $27,000 Total: $108,000
Prin. Invest.: D ELBAUM, J M KOSTERLITZ
Tech. Officer: LERC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 3 2067 BROWN UNIVERSITY **8441**
FEASIBILITY OF FLLUID–DYNAMICALLY GENERATED LONGIT UDINAL VORTICES IN VICIITY OF HIGH SPEED NOZZLE E
08/15/1997 – 09/30/1997 FY97: $40,000 Total: $40,000
Prin. Invest.: J C LIU
Tech. Officer: LERC/M D DAHL
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 2629 BROWN UNIVERSITY **8442**
ANISOTROPHY OF THE COSMIC MICROWAVE BACKGROUND ON LARGE AND MEDIUM ANGULAR SCALES
06/23/1994 – 06/30/1997 FY97: $20,000 Total: $150,196
Prin. Invest.: P TIMBIE
Tech. Officer: GSFC/E CHENG, GSFC/R F SILVERBERG
CASE Category: 11 – ASTRONOMY

NAG 5 3659 BROWN UNIVERSITY **8443**
PLANETARY GEOPHYSICS AND TECTONICS
03/07/1997 – 10/31/1997 FY97: $74,700 Total: $74,700
Prin. Invest.: E PARMENTIER
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3871 BROWN UNIVERSITY **8444**
REFLECTANCE EXPERIMENT LABORATORY
02/14/1997 – 09/30/1997 FY97: $100,080 Total: $100,080
Prin. Invest.: C M PIETERS
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3872 BROWN UNIVERSITY **8445**
BROWN REGIONAL PLANETARY DATA CENTER
02/14/1997 – 09/30/1997 FY97: $48,379 Total: $48,379
Prin. Invest.: P H SCHULTZ
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3877 BROWN UNIVERSITY **8446**
PLANETARY IMPACT PROCESSES
02/14/1997 – 09/30/1997 FY97: $135,000 Total: $135,000
Prin. Invest.: P H SCHULTZ
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3933 BROWN UNIVERSITY **8447**
GEOLOGICAL MAPPING OF VENUS: ORIGIN OF BASINS AND STRATIGRAPHY
02/13/1997 – 02/14/1998 FY97: $43,750 Total: $43,750
Prin. Invest.: D W HEAD,III
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4162 BROWN UNIVERSITY **8448**
MINERALOGY OF THE MARTIAN SURFACE: CRUSTAL COMPOSI PROCESSES
03/26/1997 – 02/28/1998 FY97: $70,400 Total: $70,400
Prin. Invest.: D F MUSTARD
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4231 BROWN UNIVERSITY **8449**
DIKE EMPLACEMENT AND HYDROTHERMAL ENVIRONMENTS FOR SITES: CANDIDATES FOR RESOURCE REACTION ZONES AND
04/23/1997 – 03/31/1999 FY97: $38,471 Total: $38,471
Prin. Invest.: D HEAD,III
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4303 BROWN UNIVERSITY **8450**
MINERALOGY OF LUNAR MATERIALS FROM REFLECTANCE SPE
04/12/1997 – 06/30/1998 FY97: $55,000 Total: $55,000
Prin. Invest.: D M PIETERS
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4356 BROWN UNIVERSITY **8451**
OPERATION OF: TERRESTRIAL PLANETARY BODIES SCIENCE
05/02/1997 – 01/31/1998 FY97: $60,000 Total: $60,000
Prin. Invest.: D W HEAD
Tech. Officer: GSFC/G VARSI
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4366 BROWN UNIVERSITY **8452**
REMOTE SENSING INFO APPLIED TO GEOLOGICAL STUDIES
04/29/1997 – 12/31/1997 FY97: $80,000 Total: $80,000
Prin. Invest.: C M PIETERS
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4438 BROWN UNIVERSITY **8453**
EXPERIMENTAL STUDY OF LUNAR AND SNC MAGMAS: ROLE O
04/23/1997 – 03/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: D J RUTHERFORD
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4585 BROWN UNIVERSITY **8454**
TECTONIC DEFORMATION PATTERNS ON VENUS: RELATION LITHOSPHERIC PROCESSES AND EVOLUTION
05/20/1997 – 09/30/1997 FY97: $95,000 Total: $95,000
Prin. Invest.: J W HEAD,III
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4650 BROWN UNIVERSITY **8455**
EVOLUTION AND DEPTHS OF THE HIGH–TI MARE PICRITE G
06/11/1997 – 04/30/1998 FY97: $61,754 Total: $61,754
Prin. Invest.: D C HESS
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4676 BROWN UNIVERSITY **8456**
MARS 94 PARTICIPATING SCIENTIST AND CO–INVESTIGATO
06/05/1997 – 06/30/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: D W HEAD,III
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4723 BROWN UNIVERSITY **8457**
PLANETARY VOLCANIC PROCESSES: SHALLOW MAGMA RESER DIVERSITY OF ERUPTION CONDITIONS
06/11/1997 – 09/30/1997 FY97: $90,000 Total: $90,000
Prin. Invest.: J W HEAD,III
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 5133 BROWN UNIVERSITY **8458**
A HIGH RESOLUTION X–RAY DETECTOR USING MAGNETIC BOLOMETERS
03/12/1997 – 02/28/1998 FY97: $125,000 Total: $125,000
Prin. Invest.: G SEIDEL
Tech. Officer: GSFC/B FLOWERS
CASE Category: 13 – PHYSICS

NAG 5 6003 BROWN UNIVERSITY **8459**
THE DYNAMICS OF A SEMI–ARID REGION IN RESPONSE TO POLICY
08/26/1997 – 12/31/1998 FY97: $190,000 Total: $190,000
Prin. Invest.: J MUSTART
Tech. Officer: GSFC/A JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6144 BROWN UNIVERSITY **8460**
MARS OBSERVER LASER ALTIMETER (MOLA) PARTICIPATION
08/19/1997 – 08/31/1998 FY97: $80,000 Total: $80,000
Prin. Invest.: J W HEAD
Tech. Officer: GSFC/D E SMITH
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 28 BROWN UNIVERSITY **8461**
REMOTE SENSING INFORMATION APPLIED TO GEOLOGICAL STUDIES OF PLANETS
02/14/1980 – 09/30/1996 FY97: $0 Total: $1,524,222
Prin. Invest.: C M PIETERS
Tech. Officer: HQ/J UNDERWOOD, HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 705 BROWN UNIVERSITY **8462**
PLANETARY IMPACT PROCESSES
03/01/1985 – 09/30/1996 FY97: $0 Total: $1,726,762
Prin. Invest.: P H SCHULTZ
Tech. Officer: HQ/J R UNDERWOOD, HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 748 BROWN UNIVERSITY **8463**
REFLECTANCE EXPERIMENT LAB
05/01/1985 – 06/30/1997 FY97: $0 Total: $877,634
Prin. Invest.: C M PIETERS
Tech. Officer: HQ/J R UNDERWOOD, HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 855 BROWN UNIVERSITY **8464**
REGIONAL PLANETARY DATA FACILITY
11/01/1985 – 06/30/1997 FY97: $0 Total: $415,939
Prin. Invest.: P H SCHULTZ
Tech. Officer: HQ/J R UNDERWOOD, HQ/B M FRENCH
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1873 BROWN UNIVERSITY **8465**
GEOLOGICAL PROCESSES ON PLANETS AND SATELLITES: T ECTONISM
07/23/1990 – 06/30/1997 FY97: $0 Total: $535,059
Prin. Invest.: J W HEAD
Tech. Officer: HQ/T A MAXWELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1928 BROWN UNIVERSITY **8466**
PLANETARY GEOPHYSICS AND TECTONICS
01/05/1990 – 06/30/1997 FY97: $0 Total: $466,662
Prin. Invest.: E M PARMENTIER
Tech. Officer: HQ/TA MAXWELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2185 BROWN UNIVERSITY **8467**
GEOLOGICAL STUDIES OF PLANETS AND SATELLITES; PLAN ETARY VOL-CANISM
07/23/1990 – 06/30/1997 FY97: $0 Total: $1,009,086
Prin. Invest.: J W HEAD
Tech. Officer: HQ/T A MAXWELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2500 BROWN UNIVERSITY **8468**
PROBLEMS IN VOLCANOLOGY AND UNCONFORMABLE SURFACE DEPOSITS ON MARS
08/12/1991 – 06/30/1997 FY97: $0 Total: $239,422
Prin. Invest.: J HEAD
Tech. Officer: HQ/W L QUAIDE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3331 BROWN UNIVERSITY **8469**
KINETIC AND THERMODYNAMIC STUDIES OF MELTING FREEZ ING OF HELIUM IN MICROGRAVITY
01/11/1993 – 12/31/1996 FY97: $0 Total: $330,000
Prin. Invest.: C ELBAUM
Tech. Officer: HQ/M C LEE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3379 BROWN UNIVERSITY **8470**
COMPOSITION, ALTERATION, AND REDISTRIBUTION OF LOW ALBEDO MATERIALS ON MARS FROM ISM DATA
02/16/1993 – 06/30/1997 FY97: $0 Total: $179,270
Prin. Invest.: J F MUSTARD
Tech. Officer: HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3613 BROWN UNIVERSITY **8471**
EXPERIMENTAL STUDY OF CHEMICAL PHASE AND TEXTURAL EQUI-LIBRIUM OF HIGH TIO2 MARE BASALTS AND PERIDOTI
06/11/1993 – 09/30/1997 FY97: $74,069 Total: $251,709
Prin. Invest.: P HESS
Tech. Officer: HQ/RAHE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3633 BROWN UNIVERSITY **8472**
EXPERIMENTAL STUDY OF LUNAR AND SNC MAGMAS: ROLE OF VOL-ATILES
06/16/1993 – 03/31/1997 FY97: $0 Total: $178,603
Prin. Invest.: M RUTHERFORD
Tech. Officer: HQ/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3709 BROWN UNIVERSITY **8473**
MINERALOGY OF LUNAR MATERIALS FROM REFLECTANCE SPE C
08/10/1993 – 06/30/1997 FY97: $55,000 Total: $147,511
Prin. Invest.: C PIETERS
Tech. Officer: HQ/RAHE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3756 BROWN UNIVERSITY **8474**
MISSION OPERATIONS AND CALIBRATION OF CLEMENTINE D ATA FOR MAXIMUM SCIENCE RETURN
09/17/1993 – 06/30/1997 FY97: $0 Total: $170,000
Prin. Invest.: C PIETERS
Tech. Officer: HQ/H C BRINTON
CASE Category: 11 – ASTRONOMY

NAGW 4418 BROWN UNIVERSITY **8475**
CHAIRMANSHIP OF THE TERRESTRIAL PLANETARY BODIES S CIENCE WORKING GROUP
05/12/1995 – 01/31/1996 FY97: $10,000 Total: $59,992
Prin. Invest.: J HEAD,III
Tech. Officer: HQ/J RAHE
CASE Category: 11 – ASTRONOMY

NAGW 4792 BROWN UNIVERSITY **8476**
DEVELOPMENT OF A HIGH–RESOLUTION SINGLE–PHOTON X–RAY DETEC-TOR
09/22/1995 – 12/30/1996 FY97: $0 Total: $100,000
Prin. Invest.: G M SEIDEL
Tech. Officer: HQ/L J KALUZIENSKI
CASE Category: 11 – ASTRONOMY

NAGW 4896 BROWN UNIVERSITY **8477**
CONSTRAINTS ON THE MAGNITUDE OF LATERAL MASS TRANSPORT ON THE MOON
01/30/1996 – 12/31/1997 FY97: $0 Total: $50,000
Prin. Invest.: J F MUSTARD
Tech. Officer: HQ/J M BOYCE, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 4910 BROWN UNIVERSITY **8478**
STRATIGRAPHY AND EVOLUTION OF THE LUNAR CRUST
02/05/1996 – 12/31/1995 FY97: $0 Total: $88,000
Prin. Invest.: C M PIETERS
Tech. Officer: HQ/J M BOYCE, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 5023 BROWN UNIVERSITY **8479**
GEOLOGICAL MAPPING OF VENUS: ORIGIN OF BASIAS AND TESTS OF GLOBAL STRATIGRAPH
04/11/1996 – 06/30/1997 FY97: $0 Total: $35,000
Prin. Invest.: J W HEAD, III
Tech. Officer: HQ/H BRINTON, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 5101 BROWN UNIVERSITY **8480**
IRON ABUNDANCE ACROSS THE LUNAR HIGHLANDS
06/10/1996 – 06/30/1997 FY97: $0 Total: $25,000
Prin. Invest.: C E PIETERS
Tech. Officer: HQ/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG13 39 BROWN UNIVERSITY **8481**
RHODE ISLAND'S NARRAGANSETT BAY FROM SPACE: A PERSPECTIVE FOR THE 21ST CENTURY
08/01/1996 – 07/31/1998 FY97: $258,049 Total: $358,049
Prin. Invest.: D MUSTARD
Tech. Officer: JSC/B DAVIS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 5213 BROWN UNIVERSITY **8482**
USER INTERFACE TECHNOLOGY TRANSFER TO NASA'S VIRTUAL WIND TUNNEL SYSTEM
04/29/1997 – 03/31/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: A VAN DAM
Tech. Officer: ARC/M GERALD–YAMASAKI
CASE Category: 22 – COMPUTER SCIENCE

NGT 40034 BROWN UNIVERSITY **8483**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
04/03/1991 – 01/31/1998 FY97: $0 Total: $1,001,000
Prin. Invest.: P H SCHULTZ
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51011 BROWN UNIVERSITY **8484**
GRADUATE STUDENT RESEARCHERS PROGRAM
02/09/1993 – 12/14/1996 FY97: –$3,741 Total: $62,259
Prin. Invest.: R H BRANDENBERGER
Tech. Officer: GSFC/G SOFFEN
CASE Category: 13 – PHYSICS

NGT 51029 BROWN UNIVERSITY **8485**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/23/1993 – 06/30/1996 FY97: $0 Total: $66,000
Prin. Invest.: P F FISHER
Tech. Officer: HQ/J T LYNCH
CASE Category: 21 – MATHEMATICS

NGT 51187 BROWN UNIVERSITY **8486**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/29/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: P T TIMBIE
Tech. Officer: GSFC/M BURRELL
CASE Category: 13 – PHYSICS

NGT 51262 BROWN UNIVERSITY **8487**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/14/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: G SEIDEL
Tech. Officer: HQ/A NURRUDDIN
CASE Category: 13 – PHYSICS

NGT 51350 BROWN UNIVERSITY **8488**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
08/18/1994 – 06/30/1996 FY97: $0 Total: $44,000
Prin. Invest.: P C HESS
Tech. Officer: HQ/G A LESANE
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 51663 BROWN UNIVERSITY **8489**
GRAD STUDENT RESEARCH PROGRAM
08/15/1996 – 08/31/1997 FY97: –$13,667 Total: $8,333
Prin. Invest.: P TIMBLE
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 70326 BROWN UNIVERSITY **8490**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
07/01/1993 – 06/30/1996 FY97: $0 Total: $66,000
Prin. Invest.: J HEAD
Tech. Officer: HQ/D K RUSSELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 70370 BROWN UNIVERSITY **8491**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
07/13/1994 – 06/30/1996 FY97: –$1 Total: $54,050
Prin. Invest.: G E KARNIADAKIS
Tech. Officer: HQ/D RUSSELL
CASE Category: 46 – MECHANICAL ENGR

NGT 5 50001 BROWN UNIVERSITY **8492**
A SEARCH FOR SMALL ANGULAR SCALE ANISTOTROPY IN TH E COSMIC MIRCROWAVE BACKGROUND RADIATION
09/09/1996 – 08/31/1997 FY97: $0 Total: $22,000
Prin. Invest.: P TIMBIE, G WILSON
Tech. Officer: GSFC/G SOFFEN
CASE Category: 11 – ASTRONOMY

NGT 5 50108 BROWN UNIVERSITY **8493**
MORPHOLOGY–DEPENDENT RESONANCE TECHNIQUES FOR THE ED SUPERFLUID HELIUM DROPLETS
09/06/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: SEIDEL
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90014 BROWN UNIVERSITY **8494**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
02/03/1997 – 02/28/1998 FY97: $170,000 Total: $170,000
Prin. Invest.: P H SCHULTZ
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 9 8 BROWN UNIVERSITY **8495**
STUDIES OF REGIONAL PYROCLASTIC DEPOSITS
07/03/1996 – 07/31/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: J W HEAD, III
Tech. Officer: JSC/D G SICKOREZ
CASE Category: 11 – ASTRONOMY

NAG 1 1225 UNIVERSITY OF RHODE ISLAND **8496**
CONCENTRATIONS OF MINERAL AEROSOL AND TRACE ELENEN TS IN ATMOSPHERE OF WESTERN PACIFIC AND RELATIONS
02/27/1991 – 02/25/1997 FY97: $0 Total: $275,923
Prin. Invest.: R ARIMOTO, R A DUCE
Tech. Officer: LARC/B E ANDERSON, LARC/J M HOELL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1235 UNIVERSITY OF RHODE ISLAND **8497**
METEOROLOGICAL AND PHOTOCHEMICAL MODELING IN PEM WEST
03/12/1991 – 08/31/1996 FY97: $0 Total: $879,494
Prin. Invest.: J T MERRILL, B HEIKES
Tech. Officer: LARC/J M HOELL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1757 UNIVERSITY OF RHODE ISLAND **8498**
THE DISTRIBUTION OF HYDROGEN PEROXIDE, METHYLHY– DROPEROX-IDE, AND FORMALDEHYDE AND THEIR RELATION–
09/21/1995 – 03/31/1998 FY97: $185,969 Total: $475,969
Prin. Invest.: D HEIKES
Tech. Officer: LARC/J M HOELL, JR., LARC/R J BENDURA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 1108 UNIVERSITY OF RHODE ISLAND **8499**
HYDROGEN PEROXIDE, METHYLHYDROPEROXIDE, & FORMALDE HYDE MEASUREMENTS DURING SONEX, RELATIONSHIP TO..
01/29/1997 – 12/31/1997 FY97: $179,149 Total: $179,149
Prin. Invest.: B HEIKES
Tech. Officer: ARC/E P CONDON, ARC/S S WEGENER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 3 1428 UNIVERSITY OF RHODE ISLAND **8500**
HIGH TEMPERATURE THIN FILM STRAIN SENSORS BASED ON ALUMINUM NITRIDE
01/14/1993 – 06/30/1997 FY97: $20,000 Total: $240,000
Prin. Invest.: O J GREGORY
Tech. Officer: LERC/L C MARTIN
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1998 UNIVERSITY OF RHODE ISLAND **8501**
CERAMIC THIN FILM STRAIN SENSORS FOR USE AT HIGH T EMPERA-TURES
12/03/1996 – 06/30/1998 FY97: $60,000 Total: $60,000
Prin. Invest.: O J GREGORY
Tech. Officer: LERC/L C MARTIN, LERC/W D WILLIAMS
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 3736 UNIVERSITY OF RHODE ISLAND **8502**
SURVEY OF OCEAN FRONTS WITH SST, ALTIMETER AND IN
03/06/1997 – 02/28/1998 FY97: $126,000 Total: $126,000
Prin. Invest.: P CORNILLON
Tech. Officer: GSFC/B DOUGLAS
CASE Category: 33 – OCEANOGRAPHY

NAG 5 3895 UNIVERSITY OF RHODE ISLAND **8503**
MIDDLE SCHOOL TEACHER INSTITUTE ON GLOBAL CHANGE I OF A 2 YEAR GRANT REF: HQ GRANT NAGW 4632
02/11/1997 – 06/30/1997 FY97: $70,296 Total: $70,296
Prin. Invest.: L CARTER
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 6320 UNIVERSITY OF RHODE ISLAND **8504**
PRODUCTION OF WESTERN NORTH ATLANTIC FULL RESOLUTI THE AVHRR SENSOR
09/11/1997 – 09/30/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: P CORNILLON
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 1891 UNIVERSITY OF RHODE ISLAND **8505**
OCEAN COLOR STUDIES OF THE EASTERN ATLANTIC
12/07/1989 – 09/30/1997 FY97: $0 Total: $1,092,453
Prin. Invest.: J A YODER
Tech. Officer: HQ/M R LEWIS, HQ/W S WILSON
CASE Category: 33 – OCEANOGRAPHY

NAGW 3009 UNIVERSITY OF RHODE ISLAND **8506**
A STUDY OF THE FORMATION OF SUBTROPICAL MODE WATER
04/03/1992 – 06/30/1996 FY97: –$1,531 Total: $486,640
Prin. Invest.: P C CORMILLON
Tech. Officer: HQ/D ADAMEC, HQ/R A SCHIFFER
CASE Category: 33 – OCEANOGRAPHY

NAGW 3601 UNIVERSITY OF RHODE ISLAND **8507**
REMOTE SENSING OF MINERAL AEROSOLS AND THEIR IMPAC T ON PHY-TOPLANKTON PRODUCTION
05/21/1993 – 05/01/1998 FY97: $0 Total: $249,603
Prin. Invest.: P STEGMAN, N TINDALE
Tech. Officer: HQ/R E MURPHY
CASE Category: 33 – OCEANOGRAPHY

NAGW 3890 UNIVERSITY OF RHODE ISLAND **8508**
UNIV RHODE ISLAND; DISTRIBUTED OCEANOGRAPHIC DATA SYSTEM DEVELOPMENT: CLIENT SERVER DATA LOCATION
03/09/1994 – 03/31/1997 FY97: $170,829 Total: $481,629
Prin. Invest.: P CORNILLION
Tech. Officer: HQ/G H MUCKLOW, HQ/J H BREDECAMP
CASE Category: 22 – COMPUTERSCIENCE

NAGW 4632 UNIVERSITY OF RHODE ISLAND **8509**
MIDDLE SCHOOL TEACHER INSTITUTE ON GLOBAL CHANGE I SSUES
07/27/1995 – 06/30/1998 FY97: $0 Total: $79,703
Prin. Invest.: L M CARTER
Tech. Officer: HQ/M A PINE, HQ/D R NORTON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4764 UNIVERSITY OF RHODE ISLAND **8510**
PRODUCTION OF WESTERN ATLANTIC FULL RESOLUTION SST FIELDS FROM THE AVHRR SENSOR
10/05/1995 – 09/30/1997 FY97: $0 Total: $175,319
Prin. Invest.: P COMILLON
Tech. Officer: HQ/E MAIDEN
CASE Category: 33 – OCEANOGRAPHY

NCC 5 123 UNIVERSITY OF RHODE ISLAND **8511**
SUPPORT FOR CEOS WORKING GROUP ON DATA CATALOG SUB GROUP ACTIVITIES AS A NASA REPRESENTATIVE
09/14/1995 – 09/14/1997 FY97: $0 Total: $60,000
Prin. Invest.: P CORNILLON, G MILKOWSKI
Tech. Officer: GSFC/Y ENLOE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30307 UNIVERSITY OF RHODE ISLAND **8512**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/15/1995 – 08/31/1998 FY97: $0 Total: $44,000
Prin. Invest.: Y A YODER
Tech. Officer: HQ/M BALTUCK, HQ/G ASRAR
CASE Category: 33 – OCEANOGRAPHY

NGT 5 30088 UNIVERSITY OF RHODE ISLAND **8513**
"COMPARATIVE OCEANIC PHYTOPLANKTON ECOLOGY USING T BASE"/EARTH SYSTEM SCIENCE FELLOWSHIP PROGRAM/CHA
09/09/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J YODER*Prin. Invest.:* NONE
Tech. Officer: GSFC/G ASRAR
CASE Category: 33 – OCEANOGRAPHY

SOUTH CAROLINA

NAGW 4829 CITADEL MILITARY COLLEGE OF S C **8514**
ANALYSIS OF HIPPARCOS DATA AND URSA MAJOR STREAM DATA
10/30/1995 – 08/31/1997 FY97: $0 Total: $34,135
Prin. Invest.: S J ADELMAN
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAG 1 1141 CLEMSON UNIVERSITY – CLEMSON **8515**
STIFFNESS TAILORING OF COMPOSITE PLATES FOR IMPROV ED STABILITY AND STRENGTH UNDER COMBINED LOADING.
05/28/1990 – 08/31/1997 FY97: $0 Total: $369,531
Prin. Invest.: S B BIGGERS
Tech. Officer: LARC/M J SHUART, LARC/D R AMBUR
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1301 CLEMSON UNIVERSITY – CLEMSON **8516**
SUPERCONDUCTIVITY DEVICES: COMMERCIAL USE FOR SPACE
07/03/1991 – 08/02/1997 FY97: $0 Total: $345,000
Prin. Invest.: G H HAERTLING
Tech. Officer: LARC/W E MILLER
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 1634 CLEMSON UNIVERSITY – CLEMSON **8517**
LASER RADAR SENSOR DEVELOPMENT SIGNAL PROCESSING STUDIES
06/30/1994 – 06/15/1998 FY97: $60,810 Total: $248,399
Prin. Invest.: E G BAXA
Tech. Officer: LARC/L D STATON
CASE Category: 45 – ELECTRICAL ENGR

NAG 2 1107 CLEMSON UNIVERSITY – CLEMSON **8518**
A LINUX WORKSTATION FOR HIGH-PERFORMANCE GAPHICS: TASK I
01/23/1997 – 12/31/1997 FY97: $33,675 Total: $33,675
Prin. Invest.: R M GEIST, J M WESTALL
Tech. Officer: ARC/J R LEKASHMAN
CASE Category: 22 – COMPUTER SCIENCE

NAG 3 2046 CLEMSON UNIVERSITY – CLEMSON **8519**
THE COMPONENT PACKAGING PROBLEM, A VEHICLE FOR THE DEVELOPMENT OF MULTIDICIPLINARY DESIGN & ANALYSIS
05/08/1997 – 04/30/1998 FY97: $200,000 Total: $200,000
Prin. Invest.: G FADEL
Tech. Officer: LERC/C C CHAMIS, LERC/P N MURTHY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 1578 CLEMSON UNIVERSITY – CLEMSON **8520**
THE DIFFUSE GALACTIC GLOW
05/01/1991 – 11/14/1997 FY97: $0 Total: $259,775
Prin. Invest.: D H HARTMANN
Tech. Officer: GSFC/J P NORRIS, GSFC/D A KNIFFEN
CASE Category: 11 – ASTRONOMY

NAG 5 2419 CLEMSON UNIVERSITY – CLEMSON **8521**
SOLAR MAXIMUM MISSION OBSERVATIONS OF GAMMA-RAY TR ANSIENTS AND THE DIFFUSE GAMMA
11/06/1993 – 08/31/1997 FY97: $0 Total: $116,282
Prin. Invest.: M LEISING
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3053 CLEMSON UNIVERSITY – CLEMSON **8522**
DIGITAL RECEIVER AND ACCELERATED LEVEL ONE ARCHITECTURES FOR LOW COST SATELLITE TELEMETRY PRO
08/21/1995 – 08/31/1997 FY97: $55,574 Total: $134,521
Prin. Invest.: W B LING, III
Tech. Officer: GSFC/D J DAVIS, GSFC/T D BENNETT
CASE Category: 45 – ELECTRICALENGR

NAG 5 3094 CLEMSON UNIVERSITY – CLEMSON **8523**
PRODUCTION, DISTRIBUTION AND EVOLUTION OF RADIOACTIVE NUCLEI
10/11/1995 – 10/14/1996 FY97: $0 Total: $54,383
Prin. Invest.: F X TIMMES, D CLAYTON
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3699 CLEMSON UNIVERSITY – CLEMSON **8524**
ANALYSIS OF COMPTEL AND OSSE OBSERVATIONS OF SUPER
01/24/1997 – 01/31/1998 FY97: $32,298 Total: $32,298
Prin. Invest.: M D LEISING
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3835 CLEMSON UNIVERSITY – CLEMSON **8525**
TRIO: AN OUT-OF-CORE PROGRAMMING ENVIRONMENT FOR T
02/10/1997 – 02/14/1998 FY97: $71,678 Total: $71,678
Prin. Invest.: W E LIGON, III
Tech. Officer: GSFC/C MOBARRY
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 4329 CLEMSON UNIVERSITY – CLEMSON **8526**
ISOTOPIC ANOMALIES, EXTINCT RADIOACTIVITY, AND CHE SOLIDS
04/07/1997 – 04/14/1998 FY97: $48,000 Total: $48,000
Prin. Invest.: D D CLAYTON
Tech. Officer: GSFC/D F NAVA
CASE Category: 12 – CHEMISTRY

NAG 5 4340 CLEMSON UNIVERSITY – CLEMSON **8527**
NUCLEAR CLUES TO SOLAR SYSTEM ORIGIN
04/12/1997 – 01/31/1998 FY97: $45,000 Total: $45,000
Prin. Invest.: P D CLAYTON
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4624 CLEMSON UNIVERSITY – CLEMSON **8528**
XTE OBSERVATION OF THE TYCHO SUPERNOVA REMNANT
05/21/1997 – 05/31/1998 FY97: $17,419 Total: $17,419
Prin. Invest.: L THE
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4703 CLEMSON UNIVERSITY – CLEMSON **8529**
THE HISTORY OF THE NUCLEI COMPRISING PLANETARY MAT
06/11/1997 – 05/31/1998 FY97: $32,408 Total: $32,408
Prin. Invest.: D S MEYER
Tech. Officer: GSFC/D F NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 5002 CLEMSON UNIVERSITY – CLEMSON **8530**
COORDINATED STUDIES OF MAGNETOSPHERIC/IONOSPHERIC COUPLING AN D DYNAMICS DIFUSE AURORA
04/16/1993 – 12/31/1996 FY97: $0 Total: $444,100
Prin. Invest.: M F LARSON
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 5034 CLEMSON UNIVERSITY – CLEMSON **8531**
SOUNDING ROCKET INVESTIGATIONS OF EDDY & MOLECULAR DIFFUSIVITIES IN THE MESOSPHERE/LOWER THERMOSPHER
04/12/1995 – 03/31/1998 FY97: $94,000 Total: $287,000
Prin. Invest.: M F LARSEN
Tech. Officer: GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 5043 CLEMSON UNIVERSITY – CLEMSON **8532**
NA TEMPERATURE LIDAR SUPPORT FOR THE PUERTO RICO II ROCKET CAMPAIGN AT ARECIBO
07/28/1995 – 06/30/1998 FY97: $93,995 Total: $108,099
Prin. Invest.: J W MERIWETHER
Tech. Officer: GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 5085 CLEMSON UNIVERSITY – CLEMSON **8533**
ROCKET/RADAR INVESTIGATION OF LOWER IONOSPHERE ELECTRODYNAMICS ASSOCIATED WITH INTENSE MID–LATITU
06/28/1996 – 05/31/1998 FY97: $48,000 Total: $86,000
Prin. Invest.: M F LARSEN
Tech. Officer: GSFC/L W GURKIN
CASE Category: 13 – PHYSICS

NAG 5 6210 CLEMSON UNIVERSITY – CLEMSON **8534**
RECONFIGURABLE COMPUTING SYSTEMS FOR REGIONAL VALI APPLICATIONS, CONTROL NUMBER GSFC5–3265
08/06/1997 – 06/30/1998 FY97: $99,924 Total: $99,924
Prin. Invest.: D LIGON, III
Tech. Officer: GSFC/W CAMPBELL
CASE Category: 49 – ENGINEERING, OTHER

NAGW 2305 CLEMSON UNIVERSITY – CLEMSON **8535**
NUCLEAR CLUES TO SOLAR SYSTEM ORIGINS
12/06/1990 – 04/30/1997 FY97: $0 Total: $199,694
Prin. Invest.: D D CLAYTON
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3277 CLEMSON UNIVERSITY – CLEMSON **8536**
NAGW–3277/CLEMSON UNIV/ISOTOPIC ANOMALIES AND CHEM ICAL MEMORY
12/04/1992 – 09/30/1997 FY97: $0 Total: $183,508
Prin. Invest.: D D CLAYTON
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3480 CLEMSON UNIVERSITY – CLEMSON **8537**
THE HISTORY OF THE NUCLEI COMPRISING PLANETARY MAT ERIALS
03/27/1992 – 09/30/1997 FY97: $0 Total: $98,092
Prin. Invest.: B MEYER
Tech. Officer: HQ/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 4546 CLEMSON UNIVERSITY – CLEMSON **8538**
ANALYSIS OF EQUTORIAL IONOSPHERIC TURBULENCE USING DE AND SAN MARCO DATA
06/30/1995 – 04/30/1998 FY97: $0 Total: $101,530
Prin. Invest.: D L HYSELL
Tech. Officer: HQ/J BOHLIN
CASE Category: 13 – PHYSICS

NGT 10008 CLEMSON UNIVERSITY – CLEMSON **8539**
MULTIDISCIPLINARY DESIGN AND ANALYSIS FELLOWSHIP P ROGRAM
10/07/1993 – 09/30/1997 FY97: $0 Total: $450,000
Prin. Invest.: G M FADEL
Tech. Officer: HQ/G S SEIDEL, HQ/J R FACEY
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51195 CLEMSON UNIVERSITY – CLEMSON **8540**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/29/1993 – 08/23/1996 FY97: $0 Total: $66,000
Prin. Invest.: D DINGER
Tech. Officer: LARC/E PRIOR
CASE Category: 49 – ENGINEERING, OTHER

NGT 70386 CLEMSON UNIVERSITY – CLEMSON **8541**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
08/26/1994 – 06/30/1998 FY97: $0 Total: $66,000
Prin. Invest.: J PETERSON
Tech. Officer: HQ/D RUSSELL
CASE Category: 21 – MATHEMATICS

NGT 90193 CLEMSON UNIVERSITY – CLEMSON **8542**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/27/1993 – 08/14/1996 FY97: $0 Total: $36,000
Prin. Invest.: S LASSER
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90253 CLEMSON UNIVERSITY – CLEMSON **8543**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
01/11/1995 – 08/14/1996 FY97: $0 Total: $48,000
Prin. Invest.: J S LASSER
Tech. Officer: HQ/D K RUSSELL
CASE Category: 45 – ELECTRICAL ENGR

NGT 1 52153 CLEMSON UNIVERSITY – CLEMSON **8544**
GRADUATE STUDENT RESEARCHERS PROGRAM
10/29/1996 – 12/31/1997 FY97: $14,000 Total: $14,000
Prin. Invest.: D DINGER
Tech. Officer: LARC/R HATHAWAY
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 1 52179 CLEMSON UNIVERSITY – CLEMSON **8545**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
09/12/1997 – 09/11/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: K A CUNEFARE, W M JOHNSON
Tech. Officer: LARC/R J SILCOX, LARC/J H ROBINSON
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 21 CLEMSON UNIVERSITY – CLEMSON **8546**
IMPROVING HIGH PERFORMANCE I/O IN COMPUTATIONAL DA TA PROCESSING SYSTEMS
07/15/1996 – 06/30/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: W B LIGON, III
Tech. Officer: GSFC/G A SOFFEN, GSFC/N SHORT
CASE Category: 22 – COMPUTER SCIENCE

NGT 5 90037 CLEMSON UNIVERSITY – CLEMSON **8547**
UNDERGRADUATE STUDENTS AWARDS FOR RESEARCH (USAR)
01/30/1997 – 08/14/1997 FY97: $54,000 Total: $54,000
Prin. Invest.: S LASSER
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 49 – ENGINEERING, OTHER

NGT10 52611 CLEMSON UNIVERSITY – CLEMSON **8548**
GRADUATE STUDENT RESEARCH GRANT
09/01/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D DAWSON
Tech. Officer: KSC/G BUCKINGHAM
CASE Category: 45 – ELECTRICAL ENGR

NAG 8 1260 COASTAL CAROLINA UNIVERSITY **8549**
JOVE RESEARCH PHASE II
01/17/1997 – 08/31/1998 FY97: $68,000 Total: $68,000
Prin. Invest.: C GILLMAN, D
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 1634 COLLEGE OF CHARLESTON **8550**
A NASA/UNIVERSITY JOINT VENTURE IN SPACE SCIENCE ((JOVE)
06/14/1991 – 07/14/1996 FY97: –$920 Total: $120,680
Prin. Invest.: M W COLGAN, P DUSTAN
Tech. Officer: GSFC/G A SOFFEN, GSFC/P J SAKIMOTO
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4198 COLLEGE OF CHARLESTON **8551**
EXPLORING THE SOLAR SYSTEM IN THE CLASSROOM: A HAN
03/17/1997 – 07/31/1998 FY97: $8,000 Total: $8,000
Prin. Invest.: D R COOMBS
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 9 846 COLLEGE OF CHARLESTON **8552**
EVALUATION OF LUNAR DARK MANTLE DEPOSITS
09/18/1995 – 08/31/1998 FY97: $0 Total: $17,000
Prin. Invest.: D R COOMBS
Tech. Officer: SSC/D SICKOREZ
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 4467 COLLEGE OF CHARLESTON **8553**
EXPLORING THE SOLAR SYSTEM IN THE CLASSROOM: A HANDS ON APPROACH
05/12/1995 – 07/31/1997 FY97: $0 Total: $16,000
Prin. Invest.: C COOMBS
Tech. Officer: HQ/H BRINTON
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 40055 COLLEGE OF CHARLESTON **8554**
SOUTH CAROLINA SPACE GRANT CONSORTIUM
08/13/1993 – 09/30/1997 FY97: $0 Total: $768,405
Prin. Invest.: M W COLGAN
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40050 COLLEGE OF CHARLESTON **8555**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA
02/03/1997 – 02/28/1998 FY97: $226,237 Total: $226,237
Prin. Invest.: M COLGAN
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40052 COLLEGE OF CHARLESTON **8556**
SOUTH CAROLINA SPACE GRANT CONSORTIUM–NATIONAL SPACE FELLOWSHIP PROGRAM
02/07/1997 – 11/14/1996 FY97: $13,797 Total: $13,797
Prin. Invest.: D COLGAN
Tech. Officer: GSFC/L OSTENDORF
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 1101 FURMAN UNIVERSITY **8557**
JOVE
10/19/1994 – 05/31/1998 FY97: $40,000 Total: $122,000
Prin. Invest.: K C ABERNETHY, H S PORTER, JR.
Tech. Officer: MSFC/F SIX
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 8 1385 MEDICAL UNIVERSITY OF SOUTH CAROLINA **8558**
RESEARCH "GASTRIC MUCOSAL CELL CULTURE IN SIMULATED MICROGRAVITY
06/17/1997 – 11/30/1997 FY97: $87,000 Total: $87,000
Prin. Invest.: A J SMOLKA
Tech. Officer: MSFC/C R TALLEY
CASE Category: 56 – MEDICL

NAG 5 4252 SOUTH CAROLINA STATE UNIVERSITY **8559**
SHARE WITH A PAIR OF PEERS PROJECT (SWAPOP)
04/07/1997 – 08/14/1997 FY97: $371,089 Total: $371,089
Prin. Invest.: J FULLER
Tech. Officer: GSFC/M MATEU
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4618 SOUTH CAROLINA STATE UNIVERSITY **8560**
SHARE WITH A PAIR OF PEERS – SWAPOP PROJECT
07/21/1995 – 08/14/1998 FY97: $0 Total: $184,227
Prin. Invest.: J W FULLER
Tech. Officer: HQ/B L WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 5 116 SOUTH CAROLINA STATE UNIVERSITY **8561**
CENTER FOR NETWORK RESOURCES AND TRAINING AT SOUTH CAROLINA STATE UNIVERSITY
08/15/1995 – 08/14/1997 FY97: $650,000 Total: $1,840,000
Prin. Invest.: D K WALTER
Tech. Officer: GSFC/J BENNETT
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1489 UNIVERSITY OF SOUTH CAROLINA–COLUMBIA **8562**
CHARATERIZATION OF CRACK GROWTH IN ALUMINUM SHEETS SUBJECTED TO MULTIMODE LOADING NLPN 93–105
02/19/1993 – 11/30/1996 FY97: $0 Total: $392,472
Prin. Invest.: M SUTTON, W CHAO
Tech. Officer: LARC/C E HARRIS
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 1664 UNIVERSITY OF SOUTH CAROLINA–COLUMBIA **8563**
DEVELOPMENT OF A PC–BASED, AUTOMATED CRACK CLOSURE MEASUREMENT SYSTEM USING COMPUTER VISION
01/31/1995 – 09/30/1997 FY97: $67,000 Total: $267,981
Prin. Invest.: M SUTTON
Tech. Officer: LARC/R S PIASCIK
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 5 4442 UNIVERSITY OF SOUTH CAROLINA–COLUMBIA **8564**
ION MICROPROBE STUDY OF PRIMOCRYSTS IN LUNAR CUMUL
04/23/1997 – 05/31/1998 FY97: $15,000 Total: $15,000
Prin. Invest.: D W SHERVAIS
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAGW 3637 UNIVERSITY OF SOUTH CAROLINA–COLUMBIA **8565**
BASALTIC VOLCANISM AND ANCIENT PLANETARY CRUSTS
06/04/1993 – 09/30/1997 FY97: –$1 Total: $81,811
Prin. Invest.: J SHERVAIS
Tech. Officer: HQ/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 4610 UNIVERSITY OF SOUTH CAROLINA–COLUMBIA **8566**
DURABILITY OF ADVANCED MATERIALS FOR THE NEXT GENERATION OF SUBSONIC AIRCRAFT
08/11/1995 – 09/01/1997 FY97: $0 Total: $150,000
Prin. Invest.: M COLGAN
Tech. Officer: HQ/A S MCGEE, HQ/E T SCHWARTZ
CASE Category: 49 – ENGINEERING, OTHER

NAG13 27 UNIVERSITY OF SOUTH CAROLINA–COLUMBIA **8567**
A NASA VISITING INVESTIGATOR PROGRAM
09/02/1993 – 01/12/1998 FY97: $116,145 Total: $433,891
Prin. Invest.: J R JENSEN, D C COWEN
Tech. Officer: SSC/C
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 5 174 UNIVERSITY OF SOUTH CAROLINA–COLUMBIA **8568**
EXPERIMENTAL PROGRAM TO STIMULATE COMPETITIVE RESE
12/16/1996 – 03/30/1998 FY97: $499,048 Total: $499,048
Prin. Invest.: J D ODOM
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51315 UNIVERSITY OF SOUTH CAROLINA–COLUMBIA **8569**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/29/1994 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: J R ROSE
Tech. Officer: HQ/J T LYNCH
CASE Category: 22 – COMPUTER SCIENCE

NGT 90145 UNIVERSITY OF SOUTH CAROLINA–COLUMBIA **8570**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
09/26/1992 – 02/28/1997 FY97: $0 Total: $48,000
Prin. Invest.: M SUTTON
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 1 52128 UNIVERSITY OF SOUTH CAROLINA–COLUMBIA **8571**
GRADUATE STUDENT RESEARCHERS PROPGRAM (GSRP)
05/23/1996 – 06/30/1998 FY97: $10,000 Total: $32,000
Prin. Invest.: M A SUTTON
Tech. Officer: LARC/J C NEWMAN, JR., LARC/I S RAJU
CASE Category: 41 – AERONAUTICAL ENGNR

NGT13 52712 UNIVERSITY OF SOUTH CAROLINA–COLUMBIA **8572**
NASA GRADUATE STUDENT PROGRAM–LEWIS HYPERSPECTRAL CHARACTERIZATION OF HAZARDOUS WASTE SITE CLAY CAPS
07/22/1997 – 07/21/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J JENSEN
Tech. Officer: JSC/A JOYCE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 1 1931 VOORHEES COLLEGE **8573**
ESTABLISHING VOORHEES COLLEGEGEOGRAPHIC INFORMATIO N SYSTEM (GIS) CENTER FOR RESEARCH, EDUCATION,AN
05/23/1997 – 05/31/1998 FY97: $180,000 Total: $180,000
Prin. Invest.: J QIN
Tech. Officer: LARC/W BALL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 1310 WOFFORD COLLEGE **8574**
JOVE RESEARCH
01/21/1997 – 08/31/1998 FY97: $30,770 Total: $30,770
Prin. Invest.: D M SCOTT
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 49 – ENGINEERING, OTHER

SOUTH DAKOTA

NAG 5 6299 AUGUSTANA COLLEGE **8575**
AUGUSTANA COLLEGE, EARTH SYSTEM SCIENCE, CURRICULU
09/19/1997 – 08/31/1998 FY97: $18,992 Total: $18,992
Prin. Invest.: V K OLNESS
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 9 967 OGLALA LAKOTA COLLEGE **8576**
SMATH–STUDENT MATH & HEALTH SCIENCES INITIATIVE
09/24/1997 – 09/30/1998 FY97: $120,000 Total: $120,000
Prin. Invest.: D J DEMAREST
Tech. Officer: JSC/L ARMENDARIZ
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 1 542 SOUTH DAKOTA SCHOOL OF MINES & TECH **8577**
MODELING & PARAMETERIZATION OF HORIZONTALLY INHOMOGENEOUS CLOUD RADIATIVE PROP.
12/07/1984 – 11/15/1995 FY97: –$158 Total: $615,230
Prin. Invest.: S K SENGUPTA
Tech. Officer: LARC/B A WIELICKI
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 3 1680 SOUTH DAKOTA SCHOOL OF MINES & TECH **8578**
STUDY OF SOLID STATE SURFACE FOR ELECTRON EMISSION APPLICATIONS
12/05/1994 – 01/16/1998 FY97: $14,911 Total: $50,708
Prin. Invest.: A PETUKHOV
Tech. Officer: LERC/I L KRAINSKY
CASE Category: 13 – PHYSICS

NAG 5 386 SOUTH DAKOTA SCHOOL OF MINES & TECH **8579**
RAIN VOLUME ESTIMATION OVER AREAS USING SATELLITE AND RADAR DATA
01/01/1984 – 10/31/1997 FY97: $0 Total: $743,327
Prin. Invest.: P SMITH, T H VONDER HAAR
Tech. Officer: GSFC/R F ADLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2711 SOUTH DAKOTA SCHOOL OF MINES & TECH **8580**
EFFECTS OF SUBSONIC AIRCRAFT ON AEROSOLS AND CLOUDINESS IN THE UPPER TROPOSPHERE, ETC...
09/01/1994 – 08/31/1997 FY97: $0 Total: $120,000
Prin. Invest.: A G DETWILER
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2712 SOUTH DAKOTA SCHOOL OF MINES & TECH **8581**
RADIATIVE EFFECTS OF SUBSONIC JET CONTRAILS
09/01/1994 – 08/31/1997 FY97: $78,600 Total: $194,986
Prin. Invest.: R M WELCH
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2889 SOUTH DAKOTA SCHOOL OF MINES & TECH **8582**
TESTING AND EVALUATION OF THE EOSDIS CORE SYSTEM
02/08/1995 – 02/14/1997 FY97: $0 Total: $177,000
Prin. Invest.: R M WELCH
Tech. Officer: GSFC/D J BLAKE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2950 SOUTH DAKOTA SCHOOL OF MINES & TECH **8583**
SCIENTIFIC KNOWLEDGE FOR INDIAN LEARNING AND LEA– DERSHIP(SKILL) NASA HONORS SUMMER PROGRAM
05/31/1995 – 05/31/1998 FY97: $144,400 Total: $433,208
Prin. Invest.: P S HUEBNER
Tech. Officer: GSFC/T GULL
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4654 SOUTH DAKOTA SCHOOL OF MINES & TECH **8584**
GLOBAL CLOUD MASK AND RETRIEVAL OF CLOUD PARTICLE USING ADEOS OCTS DATA
05/21/1997 – 06/30/1997 FY97: $26,000 Total: $26,000
Prin. Invest.: Q HAN
Tech. Officer: GSFC/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3740 SOUTH DAKOTA SCHOOL OF MINES & TECH **8585**
IMPACT OF AEROSOLS GENERATED FROM BIOMASS BURNING, DUST STORMS, AND VOLCANOES
09/22/1993 – 08/31/1996 FY97: $0 Total: $223,220
Prin. Invest.: R M WELCH, R M WELCH
Tech. Officer: HQ/J T SUTTLES, HQ/A C JANETOS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3788 SOUTH DAKOTA SCHOOL OF MINES & TECH **8586**
GLOBAL AND REGIONAL AEROSOLS AND THEIR EFFECTS ON CLOUD PROPERTIES
10/05/1993 – 09/30/1996 FY97: $0 Total: $200,120
Prin. Invest.: Q Y HAN
Tech. Officer: HQ/J C DODGE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3922 SOUTH DAKOTA SCHOOL OF MINES & TECH **8587**
GLOBAL RETRIEVAL OF CLOUD PARTICLE SIZE AND OPTICAL THICKNESS USING ISCCP DATA
04/05/1994 – 09/30/1997 FY97: $0 Total: $194,600
Prin. Invest.: Q HAN
Tech. Officer: HQ/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3966 SOUTH DAKOTA SCHOOL OF MINES & TECH **8588**
NAGW–3966/B SOUTH DAKOTA SCH. OF MINES & TECH. "E RBE AND SAGE–II INVEST. OF CLOUD RADIATIVE.."
05/13/1994 – 06/30/1997 FY97: $0 Total: $261,300
Prin. Invest.: S A CHRISTOPHER
Tech. Officer: HQ/R A SCHIFFER, HQ/R A HARRISS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4708 SOUTH DAKOTA SCHOOL OF MINES & TECH **8589**
A NEW CLASS OF MATERIAL FOR LONG DURATION SCIENTIFIC BALLOON PLATRORMS
08/24/1995 – 05/31/1997 FY97: $35,000 Total: $75,000
Prin. Invest.: C JENKINS
Tech. Officer: HQ/G ASRAR
CASE Category: 41 – AERONAUTICAL ENGNR

NAGW 4791 SOUTH DAKOTA SCHOOL OF MINES & TECH **8590**
GLOBAL CLOUD MASK & RETRIEVAL OF CLOUD PARTICLE SIZE & OPTICAL THICKNESS USINGADEOS OCTS DATA
09/25/1995 – 06/30/1997 FY97: $0 Total: $20,000
Prin. Invest.: R M WELCH
Tech. Officer: HQ/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 5195 SOUTH DAKOTA SCHOOL OF MINES & TECH **8591**
SATELLITE INVESTIGATIONS OF AEROSOL RADIATIVE FORC ING
09/19/1996 – 08/31/1997 FY97: $0 Total: $86,950
Prin. Invest.: S A CHRISTOPHER
Tech. Officer: HQ/G ASRAR, HQ/R C HARRISS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 1 19077 SOUTH DAKOTA SCHOOL OF MINES & TECH **8592**
SCIENCE INVESTIGATIONS IN SUPPORT OF CLOUDS AND TH E EARTH'S RADIANT ENERGY SYSTEM (CERES)
12/12/1989 – 06/30/1997 FY97: $130,050 Total: $1,367,299
Prin. Invest.: R M WELCH
Tech. Officer: LARC/B A WIELICKI, LARC/J W YOUNGBLOOD
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 9 24 SOUTH DAKOTA SCHOOL OF MINES & TECH **8593**
ELECTRONIC EXTENSION SERVICES
05/18/1994 – 04/30/1998 FY97: $0 Total: $1,344,412
Prin. Invest.: T S ARNESON
Tech. Officer: JSC/C WOOLLEY
CASE Category: 49 – ENGINEERING, OTHER

NGT 40046 SOUTH DAKOTA SCHOOL OF MINES & TECH **8594**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
03/14/1991 – 09/30/1997 FY97: $0 Total: $1,005,000
Prin. Invest.: S O FARWELL
Tech. Officer: HQ/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90139 SOUTH DAKOTA SCHOOL OF MINES & TECH **8595**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
09/26/1992 – 08/14/1996 FY97: –$277 Total: $47,723
Prin. Invest.: F CAMPONE
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 3 52312 SOUTH DAKOTA SCHOOL OF MINES & TECH **8596**
IN–SITU NEAR INFRA–RED CURE MONITORING AND SURFACE ANALYSIS OF POLYMER COMPOSITIES
06/21/1996 – 06/30/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: J KELLER
Tech. Officer: LERC/F MONTEGANI
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 5 40042 SOUTH DAKOTA SCHOOL OF MINES & TECH **8597**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA
01/24/1997 – 02/28/1998 FY97: $170,000 Total: $170,000
Prin. Invest.: S O FARWELL
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 3445 SOUTH DAKOTA STATE UNIVERSITY **8598**
CHARACTERIZATION OF LANDSAT–7 GEOMETRY AND RADIOME TRY FOR LAND COVER ANALYSIS.
10/04/1996 – 10/31/1997 FY97: $84,988 Total: $84,988
Prin. Invest.: D HELDER
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 11 – ASTRONOMY

NAG 5 3540 SOUTH DAKOTA STATE UNIVERSITY **8599**
TM RADIOMETRIC CALIBRATION
11/19/1996 – 11/30/1997 FY97: $71,600 Total: $71,600
Prin. Invest.: D HELDER
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 8 258 SOUTH DAKOTA STATE UNIVERSITY **8600**
JOVE
11/30/1992 – 05/31/1997 FY97: $0 Total: $143,323
Prin. Invest.: S SCHILLER, M ROSE, D HELDER
Tech. Officer: MSFC/F SIX
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 2 492 UNIVERSITY OF SOUTH DAKOTA **8601**
THE HUMAN–COMPUTER INTERFACE IN THE MODERN MISSIONCONTROL CENTER
03/01/1988 – 12/31/1996 FY97: $0 Total: $170,594
Prin. Invest.: M M GRANAAS
Tech. Officer: DFRC/S UNANDER
CASE Category: 41 – AERONAUTICAL ENGNR

TENNESSEE

NAG 8 1218 EAST TENNESSEE STATE UNIVERSITY **8602**
JOVE
11/30/1995 – 08/31/1998 FY97: $39,000 Total: $81,000
Prin. Invest.: D J WILSON
Tech. Officer: MSFC/D SIX
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 1375 EAST TENNESSEE STATE UNIVERSITY **8603**
METASTABLE SOLUTION STRUCTURE AND OPTIMIZATION STRAGEGIES IN PROTEIN CRYSTAL GROWTH
06/18/1997 – 11/30/1997 FY97: $112,000 Total: $112,000
Prin. Invest.: L WILSON
Tech. Officer: MSFC/C TALLEY
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 2 6015 FISK UNIVERSITY **8604**
TRAINING UNDER–REPRESENTED STUDENTS IN BIOLOGICAL RESEARCH AT FISK UNIVERSITY
08/20/1997 – 08/31/1998 FY97: $98,961 Total: $98,961
Prin. Invest.: M GUNASEKARAN
Tech. Officer: ARC/G S LEE
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAG 3 1430 FISK UNIVERSITY **8605**
EXPERIMENTAL STUDIES ON SURFACE–GAS PLUME INTERACT IONS
01/06/1993 – 05/14/1997 FY97: $0 Total: $965,512
Prin. Invest.: W E COLLINS, M A GEORGE
Tech. Officer: LERC/S R BULLOCK, LERC/F M CURRAN
CASE Category: 13 – PHYSICS

NAG 3 1942 FISK UNIVERSITY **8606**
LINEAR & NONLINEAR OPTICAL PROPERTIES, CARRIER DYN AMICS & SURFACE MORPHOLOGY
08/22/1996 – 08/12/1999 FY97: $0 Total: $75,000
Prin. Invest.: D O HENDERSON
Tech. Officer: LERC/S G BAILEY
CASE Category: 13 – PHYSICS

NAG 3 2012 FISK UNIVERSITY **8607**
INTERFACIAL PHYSICS OF METAL/SIC INTERFACE INTERFACIAL PHYSICS OF METAL/SIC INTERFACE
02/28/1997 – 11/30/1997 FY97: $175,000 Total: $175,000
Prin. Invest.: W E COLLINS
Tech. Officer: LERC/D J LARKIN
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 4011 FISK UNIVERSITY **8608**
X-RAY/GAMMA-RAY REMOTE SENSING AND IN-SITU SPECTRO EXPLORATION MISSION (PIDDP)13
03/11/1997 – 03/14/1998 FY97: $10,000 Total: $10,000
Prin. Invest.: A BURGER, NONE
Tech. Officer: GSFC/J I TROMKA
CASE Category: 13 – PHYSICS

NAG 8 1066 FISK UNIVERSITY **8609**
METAL AND SEMICONDUCTOR NANOCRYSTALS
07/11/1994 – 07/31/1997 FY97: $0 Total: $333,831
Prin. Invest.: D O HENDERSON, R MU
Tech. Officer: MSFC/J DOWNEY
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 8 1402 FISK UNIVERSITY **8610**
1997 PARTNERSHIP AWARD TELEMEDICINE AND RAPID IDENTIFICATION OF MICROORGANISM BY FOURIER
09/09/1997 – 08/30/1998 FY97: $189,079 Total: $189,079
Prin. Invest.: H T CAULFRED
Tech. Officer: MSFC/J BIBRO
CASE Category: 11 – ASTRONOMY

NAGW 2925 FISK UNIVERSITY **8611**
CENTER FOR PHOTONIC MATERIALS AND DEVICES
02/28/1992 – 12/31/1996 FY97: $0 Total: $3,074,599
Prin. Invest.: E SILBERMAN
Tech. Officer: HQ/S E MASSENBERG, HQ/S HARTMAN
CASE Category: 13 – PHYSICS

NCC 3 575 FISK UNIVERSITY **8612**
CONSORTIUM FOR ADVANCING RENEWABLE ENERGY TECHNOLO GY (CARET)
09/11/1997 – 07/14/1999 FY97: $503,822 Total: $503,822
Prin. Invest.: D O HENDERSON
Tech. Officer: LERC/A F HEPP
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 8 133 FISK UNIVERSITY **8613**
FOR RESEARCH "FISK UNIVERSITY CENTER FOR PHOTONIC MATERIALS AND DEVICES"
04/21/1997 – 12/31/1997 FY97: $1,000,000 Total: $1,000,000
Prin. Invest.: E SILHERMAN
Tech. Officer: MSFC/D O FRAZIER
CASE Category: 13 – PHYSICS

NCC 8 145 FISK UNIVERSITY **8614**
NOVEL METHOD FOR EVALUATION OF UNIFORMITY AND STRUCTURAL HOMOGENEITY OF TERNARY WIDE GAP SEMI
09/19/1997 – 09/30/1998 FY97: $200,000 Total: $200,000
Prin. Invest.: A BURGER
Tech. Officer: MSFC/A LEHOCZKY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 9 780 MEHARRY MEDICAL COLLEGE **8615**
NASA/MEHARRY RESEARCH PROGRAM
04/17/1995 – 06/01/1997 FY97: $0 Total: $170,754
Prin. Invest.: J WILSON
Tech. Officer: JSC/J D ATKINSON
CASE Category: 56 – MEDICL

NAG 9 934 MEHARRY MEDICAL COLLEGE **8616**
1997 NASA MEHARRY RESEARCH PROGRAM
06/06/1997 – 05/30/1998 FY97: $83,453 Total: $83,453
Prin. Invest.: J E WILSON
Tech. Officer: JSC/J ATKINSON
CASE Category: 56 – MEDICL

NGT 70388 MEHARRY MEDICAL COLLEGE **8617**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
08/12/1994 – 07/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: S E ADUNYAH
Tech. Officer: HQ/D K RUSSELL
CASE Category: 56 – MEDICL

NAG 8 1211 MIDDLE TENNESSEE STATE UNIVERSITY **8618**
JOVE
09/22/1995 – 08/31/1998 FY97: $28,000 Total: $82,000
Prin. Invest.: D HEFFINGTON, D WHITE
Tech. Officer: MSFC/D SIX
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 6049 RHODES COLLEGE **8619**
ACCELERATION OF THE SOLAR WIND
07/25/1997 – 08/31/1998 FY97: $20,370 Total: $20,370
Prin. Invest.: D MACQUEEN
Tech. Officer: GSFC/M FORMAN
CASE Category: 11 – ASTRONOMY

NAGW 4671 RHODES COLLEGE **8620**
ACCELERATION OF THE SOLAR WIND
09/12/1995 – 08/31/1998 FY97: $0 Total: $40,740
Prin. Invest.: R M MACQUEEN
Tech. Officer: HQ/W V JONES, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAG 3 1471 TENNESSEE STATE UNIVERSITY **8621**
ROBUST INTEGRATED NEURO CONTROLLER FOR COMPLEX DYN AMIC SYSTEMS
05/31/1993 – 11/30/1996 FY97: $0 Total: $491,835
Prin. Invest.: M S ZEIN-SABATTO, MARPAKA, M MALKANI
Tech. Officer: LERC/T GUO
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1479 TENNESSEE STATE UNIVERSITY **8622**
A STUDY OF RELATIONSHIP BETWEEN PROBABILISTIC DESI GN & AXIOMETRIC DESIGN METHODOLOGY
05/14/1993 – 11/30/1996 FY97: –$148,846 Total: $1,050,014
Prin. Invest.: C ONWVBIXO, F MISHU, F C CHEN
Tech. Officer: LERC/L BERKE, LERC/D HOPKINS
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1709 TENNESSEE STATE UNIVERSITY **8623**
TSU RESEARCH PROJECT FOR INCREASING THE POOL OF MI NORITY ENGINEERS
02/01/1995 – 11/01/1997 FY97: $68,659 Total: $219,319
Prin. Invest.: B ROGERS
Tech. Officer: LERC/J BOYD
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1797 TENNESSEE STATE UNIVERSITY **8624**
MELTING OF SOLID PARTICLES IN A FLUID UNDER MICROG RAVITY
11/28/1995 – 12/31/1999 FY97: $149,960 Total: $299,960
Prin. Invest.: P X TAO
Tech. Officer: LERC/D S SINGH
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1897 TENNESSEE STATE UNIVERSITY **8625**
NEURAL NETWORK CLASSIFIERS FOR DIGITAL COMMUNICATI ONS TRAFFIC MANAGEMENT
06/18/1996 – 09/30/1997 FY97: $0 Total: $49,944
Prin. Invest.: J R JOHNSON
Tech. Officer: LERC/R E JONES
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 2109 TENNESSEE STATE UNIVERSITY **8626**
PARAMETRIC ROBUST CONTROL AND SYSTEM IDENTIFICATIO N: UNIFIED APPROACH
09/28/1992 – 12/14/1995 FY97: –$328 Total: $289,215
Prin. Invest.: L KEEL
Tech. Officer: GSFC/H P FRISCH
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 5 3181 TENNESSEE STATE UNIVERSITY **8627**
INITIAL CONDITIONS ON THE ZERO AGE MAIN SEQUENCE (ZAMS): CORONAL STRUCTURE AS A FUNCTION
03/11/1996 – 03/14/1997 FY97: $0 Total: $7,533
Prin. Invest.: F FEKEL
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 8 1014 TENNESSEE STATE UNIVERSITY **8628**
SUN OBSERVATIONS
11/19/1993 – 01/17/1998 FY97: $0 Total: $359,822
Prin. Invest.: G HENRY, J EATON, M BUSBY
Tech. Officer: MSFC/J M DAVIS
CASE Category: 11 – ASTRONOMY

NAG 8 1018 TENNESSEE STATE UNIVERSITY **8629**
RESEARCH ON THE MECHANICAL PROPERITIES OF ION BEAM DEPOSITS
03/04/1994 – 11/30/1997 FY97: $0 Total: $448,153
Prin. Invest.: D K CHAUDHUN
Tech. Officer: MSFC/F E ROBERTS, MSFC/R J WALKER
CASE Category: 47 – METAL & MATERIALS ENGR

NAG10 217 TENNESSEE STATE UNIVERSITY **8630**
NEW AUTOMATED WEB BASED TRACKING SYSTEM
09/01/1997 – 08/31/1998 FY97: $130,600 Total: $130,600
Prin. Invest.: S SINGH DEVGAN
Tech. Officer: KSC/K BALLARD
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 883 TENNESSEE STATE UNIVERSITY **8631**
ARTIFICIAL INTELLIGENCE SCHEDULING OF AUTOMATED TE LESCOPES
01/31/1995 – 09/30/1996 FY97: $0 Total: $100,000
Prin. Invest.: G W HENRY
Tech. Officer: ARC/S LAU
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 977 TENNESSEE STATE UNIVERSITY **8632**
THE ASSOCIATE PRINCIPAL ASTRONOMER FOR AI MANAGEME NT OF AUTOMATIC TELESCOPES
01/24/1997 – 02/28/1998 FY97: $120,000 Total: $120,000
Prin. Invest.: G W HENRY
Tech. Officer: ARC/K J SWANSON, ARC/S LAU
CASE Category: 22 – COMPUTER SCIENCE

NCC 5 96 TENNESSEE STATE UNIVERSITY **8633**
NASA/TSU NETWORK RESOURCE AND TRAINING SITE
08/15/1995 – 08/14/1997 FY97: $600,000 Total: $1,700,000
Prin. Invest.: W SMITH
Tech. Officer: GSFC/J BENNETT
CASE Category: 22 – COMPUTER SCIENCE

NCC 5 228 TENNESSEE STATE UNIVERSITY **8634**
UNIVERSITY RESEARCH CENTER FOR AUTOMATED SPACE SCI 7/1/97 – 6/30/98.
09/05/1997 – 06/30/1998 FY97: $1,500,000 Total: $1,500,000
Prin. Invest.: M BUSBY
Tech. Officer: GSFC/P SAKIMOTO
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCCW 85 TENNESSEE STATE UNIVERSITY **8635**
CENTER FOR AUTOMATED SPACE SCIENCE
07/20/1995 – 06/30/1997 FY97: $0 Total: $3,000,000
Prin. Invest.: M R BUSBY
Tech. Officer: HQ/B L WHITE
CASE Category: 11 – ASTRONOMY

NGT 90274 TENNESSEE STATE UNIVERSITY **8636**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
12/16/1994 – 08/14/1996 FY97: $0 Total: $96,000
Prin. Invest.: D ROGERS
Tech. Officer: HQ/D K RUSSELL
CASE Category: 45 – ELECTRICAL ENGR

NGT 5 90013 TENNESSEE STATE UNIVERSITY **8637**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
12/31/1996 – 08/14/1997 FY97: $120,000 Total: $120,000
Prin. Invest.: D E ROGERS
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 45 – ELECTRICAL ENGR

NAG 8 1279 TENNESSEE TECHNOLOGICAL UNIVERSITY **8638**
RESEARCH FOR JOVE
01/21/1997 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: J C CHAI
Tech. Officer: MSFC/J P DOWDY, MSFC/J R PRUITT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 3 1686 UNIVERSITY OF MEMPHIS **8639**
FINITE ELEMENT ANALYSIS OF HELICAL GEAR TOOTH MODI FICATIONS – DYANAMICS
12/08/1994 – 09/30/1997 FY97: $40,000 Total: $110,000
Prin. Invest.: H H LIN
Tech. Officer: LERC/N AVAILABLE
CASE Category: 46 – MECHANICAL ENGR

NAG 5 2995 UNIVERSITY OF MEMPHIS **8640**
ZSCAPE A COUPLED TECTONIC GEOMORPHIC LANDSCAPE EVOLUTION MODEL
07/07/1995 – 07/14/1997 FY97: $65,000 Total: $175,000
Prin. Invest.: M ELLIS
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 8 1371 UNIVERSITY OF MEMPHIS **8641**
R/S "MODELING MAGNETICALLY ACTUATED POSITIVE POSITIONING OF CRYOGENIC PROPELLANTS"
05/22/1997 – 12/31/1997 FY97: $50,000 Total: $50,000
Prin. Invest.: J HOCHSTEIN
Tech. Officer: MSFC/G SCHMIDT
CASE Category: 13 – PHYSICS

NGT 70369 UNIVERSITY OF MEMPHIS **8642**
NGT–70369/MEMPHIS STATE UNIV; GRADUATE STUDENT RES EARCHERS PROGRAM (UMF)
11/24/1993 – 08/14/1996 FY97: $0 Total: $44,000
Prin. Invest.: M GARZON
Tech. Officer: HQ/D K RUSSELL
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1368 UNIVERSITY OF TENNESSEE – KNOXVILLE **8643**
AERODYNAMIC/ACOUSTIC COMPUTATION OF HELICOPTER ROTORS INCLUDING BLADE/VORTEX IMPINGEMENT
12/12/1991 – 06/09/1997 FY97: $0 Total: $224,331
Prin. Invest.: J S STEINHOFF
Tech. Officer: LARC/C L BURLEY, LARC/T F BROOKS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1566 UNIVERSITY OF TENNESSEE – KNOXVILLE **8644**
EFFECT OF FIBER–MATRIX INTERFACE ON THE THERMO– OXIDATIVE STABILITY OF IM7/5260 COMPOSITES
01/14/1994 – 10/10/1996 FY97: $0 Total: $208,674
Prin. Invest.: M S MADHUKAR*Prin. Invest.:* NONE
Tech. Officer: LARC/W S JOHNSON, LARC/C E HARRIS
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 2 881 UNIVERSITY OF TENNESSEE – KNOXVILLE **8645**
SUPERSONIC LAMINAR FLOW CONTROL RESEARCH
01/24/1994 – 06/30/1996 FY97: –$119 Total: $60,710
Prin. Invest.: C F LO
Tech. Officer: ARC/L S KING
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1516 UNIVERSITY OF TENNESSEE – KNOXVILLE **8646**
DEVELOPMENT OF A METHOD FOR FAST NUMERICAL SOLUTIO N OF HELMHOLTZ ATYPE PROBLEMS
07/22/1993 – 03/26/1997 FY97: $48,895 Total: $327,531
Prin. Invest.: J CARUTHERS
Tech. Officer: LERC/D L HUFF
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1573 UNIVERSITY OF TENNESSEE – KNOXVILLE **8647**
TOOLS FOR HETEROGENEOUS NETWORK COMPUTING PVM
04/01/1994 – 06/30/1996 FY97: $0 Total: $200,000
Prin. Invest.: J DOWGARRA
Tech. Officer: LERC/G J FOLLEN
CASE Category: 22 – COMPUTER SCIENCE

NAG 3 1697 UNIVERSITY OF TENNESSEE – KNOXVILLE **8648**
CONTAINERLESS DIRECTIONAL SOLIDIFICATION FO HIGH P URITY INTER-METALLICS CYSTALS AND COMPOSITES
01/18/1995 – 05/14/1997 FY97: $3,000 Total: $40,000
Prin. Invest.: B F OLIVER
Tech. Officer: LERC/R D NOEBE
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 2068 UNIVERSITY OF TENNESSEE – KNOXVILLE **8649**
DEVELOPMENT OF A 3–D TURBOFAN INLET DISCRETE TONE RADIATION ANALYSIS CODE
08/15/1997 – 11/30/1997 FY97: $49,836 Total: $49,836
Prin. Invest.: J E CARUTHERS
Tech. Officer: LERC/E ENVIA
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 3464 UNIVERSITY OF TENNESSEE – KNOXVILLE **8650**
INNOVATIVE RESEARCH PROGRAM – ISOTOPE MEASUREMENTS
11/02/1996 – 08/31/1997 FY97: $294,991 Total: $294,991
Prin. Invest.: N THONNARD
Tech. Officer: GSFC/D HOLLAND
CASE Category: 11 – ASTRONOMY

NAG 5 4370 UNIVERSITY OF TENNESSEE – KNOXVILLE **8651**
PETROGENESIS OF THE LUNAR AND PLANETARY CRUSTS AND
04/16/1997 – 01/31/1998 FY97: $110,000 Total: $110,000
Prin. Invest.: D A TAYLOR
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4387 UNIVERSITY OF TENNESSEE – KNOXVILLE **8652**
CONSTRAINING ACCRETION AND DIFFERENTIATION OF PLAN MODELLING
04/24/1997 – 02/28/1998 FY97: $49,550 Total: $49,550
Prin. Invest.: D Y MCSWEEN, JR.
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4541 UNIVERSITY OF TENNESSEE – KNOXVILLE **8653**
METEORITE PETROGENESIS
05/06/1997 – 03/31/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: D V MCSWEEN, JR.
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4842 UNIVERSITY OF TENNESSEE – KNOXVILLE **8654**
MINERALOGY AND SPECTRAL PROPERTIES OF LUNAR SOIL
06/19/1997 – 04/30/1998 FY97: $25,000 Total: $25,000
Prin. Invest.: D A TAYLOR
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 6237 UNIVERSITY OF TENNESSEE – KNOXVILLE **8655**
FUNDING FOR GRANT – TITLE "ADAPTIVE IMAGING: LOW IMAGING THROUGH TURBULENCE" PLEASE CALL CHARLENE @
08/19/1997 – 08/14/1998 FY97: $20,000 Total: $20,000
Prin. Invest.: W E BLASS
Tech. Officer: GSFC/J J HILLMAN
CASE Category: 11 – ASTRONOMY

NAG 8 1065 UNIVERSITY OF TENNESSEE – KNOXVILLE **8656**
SYNTHESIS & CHARACTERIZATION OF SINGLE MACROMOLECULES
06/28/1994 – 11/30/1996 FY97: $0 Total: $100,000
Prin. Invest.: S D ALEXANDRATES, B WUNDERLICH, K DCOOK
Tech. Officer: MSFC/J P DOWNEY
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 8 1166 UNIVERSITY OF TENNESSEE – KNOXVILLE **8657**
DEVELOPEMNT OF LOQUID HANDLING TECHNIQUES IN MICRO GRAVITY
10/06/1995 – 08/31/1997 FY97: $0 Total: $54,108
Prin. Invest.: B N ANTAR
Tech. Officer: MSFC/D M KORNFELD
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1225 UNIVERSITY OF TENNESSEE – KNOXVILLE **8658**
CONTINUATION OF 95 SUMMER FAULTY FELLOWSHIP STUDIE IN PROTEIN CRYSTALLATON
03/11/1996 – 05/31/1996 FY97: $0 Total: $13,855
Prin. Invest.: J E LYNE
Tech. Officer: MSFC/D C CARTER, MSFC/T Y MILLER
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1336 UNIVERSITY OF TENNESSEE – KNOXVILLE **8659**
DEVELOPMENT OF LIQUID HANDLING TECHNIQUES IN MICRO GRAVITY UNDER DR. B.N. ANTAR
03/06/1997 – 03/05/1998 FY97: $39,916 Total: $39,916
Prin. Invest.: B N ANTAR
Tech. Officer: MSFC/D M KORNEFELD
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 9 858 UNIVERSITY OF TENNESSEE – KNOXVILLE **8660**
DOSE–TIME PROFILES OF MAJOR SOLAR ENERGETIC PARTIC LE EVENTS
01/19/1996 – 01/18/1998 FY97: $55,143 Total: $104,631
Prin. Invest.: D W TOWNSEND
Tech. Officer: JSC/G BADHWAR
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 3141 UNIVERSITY OF TENNESSEE – KNOXVILLE **8661**
EMBRYOGENESIS OF GRAMINEAL IN MICROGRAVITY
07/24/1992 – 06/30/1997 FY97: $0 Total: $156,000
Prin. Invest.: B V CONGER
Tech. Officer: HQ/T W HALSTEAD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 3453 UNIVERSITY OF TENNESSEE – KNOXVILLE **8662**
PETROGENESIS OF THE LUNAR CRUST AND MANTLE
03/29/1993 – 01/31/1997 FY97: $0 Total: $470,802
Prin. Invest.: L TAYLOR
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3578 UNIVERSITY OF TENNESSEE – KNOXVILLE **8663**
REMOTE SENSING OF OCEAN COLOR IN THE HIGH ARCTIC
05/05/1993 – 09/30/1997 FY97: $0 Total: $361,112
Prin. Invest.: G COTA
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 33 – OCEANOGRAPHY

NAGW 3621 UNIVERSITY OF TENNESSEE – KNOXVILLE **8664**
METEORITE PETROGENESIS
06/17/1993 – 03/31/1997 FY97: $100,000 Total: $382,196
Prin. Invest.: H MCSWEEN
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAGW 4326 UNIVERSITY OF TENNESSEE – KNOXVILLE **8665**
ASTEROID HEATING: A PLAUSIBILITY TEST FOR NEBULAR ISOTOPIC HOHOMOGENEITY AND ACCRETION TIMESCALES
03/04/1995 – 12/31/1996 FY97: $0 Total: $45,125
Prin. Invest.: H MCSWEEN
Tech. Officer: HQ/P G ROGERS
CASE Category: 11 – ASTRONOMY

NAGW 4459 UNIVERSITY OF TENNESSEE – KNOXVILLE **8666**
CONFERENCE ON LABORATORY RESEARCH FOR PLANETARY ATMOSPHERE
05/02/1995 – 05/01/1997 FY97: $0 Total: $40,000
Prin. Invest.: K FOX
Tech. Officer: HQ/J BERGSTRALH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 4774 UNIVERSITY OF TENNESSEE – KNOXVILLE **8667**
KRYPTON AND XENON ISOTOPE MEASUREMENTS FROM SINGLE MICRON–SIZED REFACTORY EXTRATERRESTRIAL GRAINS
09/20/1995 – 08/31/1997 FY97: $0 Total: $147,009
Prin. Invest.: N THONNARD
Tech. Officer: HQ/D A HOLLAND, HQ/J H BREDEKAMP
CASE Category: 11 – ASTRONOMY

NAG10 221 UNIVERSITY OF TENNESSEE – KNOXVILLE **8668**
GRAVITATIONAL EFFECTS ON EMBRYOGENSIS
07/31/1997 – 10/31/1998 FY97: $112,000 Total: $112,000
Prin. Invest.: R CONGES
Tech. Officer: KSC/W KNOTT
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG13 55 UNIVERSITY OF TENNESSEE – KNOXVILLE **8669**
PC–BASED CFD NUMERICAL MODEL OF HYDROGEN FLAMES FROM ROCKET TEST STAND FLARE STACK
06/18/1997 – 06/17/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: R SCHULTZ
Tech. Officer: SSC/B ST. CYR
CASE Category: 55 – AGRICULTURE

NAS 8 97301 UNIVERSITY OF TENNESSEE – KNOXVILLE **8670**
CRITICAL PHYSICAL PROCESSES, IGNITION, DDT LENGTHS AND TIME ACCURATE TREATMENTS
07/30/1997 – 08/01/1998 FY97: $105,000 Total: $105,000
Prin. Invest.: J W MUELHAUSER
Tech. Officer: MSFC/J COLE
CASE Category: 13 – PHYSICS

NCC 1 223 UNIVERSITY OF TENNESSEE – KNOXVILLE **8671**
EXPLORATORY INVESTIGATION OF AERODYNAMICS DRAG REDUCTION USING A SURFACE LAYEROF UNIVORM GLOW
02/29/1996 – 09/30/1997 FY97: $82,077 Total: $153,685
Prin. Invest.: J R ROTH, D M SHERMAN
Tech. Officer: LARC/S P WILKINSON
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5144 UNIVERSITY OF TENNESSEE – KNOXVILLE **8672**
A COM
06/30/1995 – 03/14/1998 FY97: $40,000 Total: $79,741
Prin. Invest.: J STENNHOFF
Tech. Officer: ARC/F CARADONNA
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5198 UNIVERSITY OF TENNESSEE – KNOXVILLE **8673**
PRELIMINARY ANALYSIS OF MANNED MARS MISSIONS
12/17/1996 – 09/30/1997 FY97: $40,000 Total: $40,000
Prin. Invest.: E LYNE
Tech. Officer: ARC/P WERCINSKI
CASE Category: 42 – ASTRONAUTICAL ENGR

NCC 5 88 UNIVERSITY OF TENNESSEE – KNOXVILLE **8674**
CHAOSI UNDERSTANDING AND CONTROLLING LASER INSTABILITY
05/03/1995 – 11/14/1997 FY97: $0 Total: $45,000
Prin. Invest.: W E BLASS
Tech. Officer: GSFC/G CHIN
CASE Category: 11 – ASTRONOMY

NGT 50870 UNIVERSITY OF TENNESSEE – KNOXVILLE **8675**
NGT-50870/UNIV TENNESSEE @ KNOXVILLE/GRADUATE STUDENT RESEARCHERS PROGRAM
05/06/1992 – 09/30/1995 FY97: –$990 Total: $65,010
Prin. Invest.: H V MCSWEEN
Tech. Officer: JSC/S GOLDSTEIN
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 51048 UNIVERSITY OF TENNESSEE – KNOXVILLE **8676**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/14/1993 – 08/31/1996 FY97: –$1,460 Total: $64,540
Prin. Invest.: R J SCHULZ
Tech. Officer: LERC/F MONTEGANI
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 1 52138 UNIVERSITY OF TENNESSEE – KNOXVILLE **8677**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
06/26/1996 – 06/30/1998 FY97: $10,000 Total: $32,000
Prin. Invest.: C R RAMSEY, L W TOWNSEND
Tech. Officer: LARC/J W WILSON, LARC/F A CUCINOTTA
CASE Category: 13 – PHYSICS

NAG 2 494 UNIVERSITY OF TENNESSEE – MEMPHIS **8678**
REGULATION OF ERYTHROPOIESIS IN RATS DURING SPACE FLIGHT
02/01/1988 – 09/30/1995 FY97: –$7 Total: $1,439,584
Prin. Invest.: A T ICHIKI, Z ALLEBBAN, L GIBSON
Tech. Officer: ARC/W E HINDS, ARC/G A JAHNS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAS 9 19571 UNIVERSITY OF TENNESSEE – MEMPHIS **8679**
SERVICES/PAYLOAD SPECIALIST/NEUROLAB MISSION
08/23/1996 – 04/28/1998 FY97: $150,000 Total: $225,000
Prin. Invest.: A DUNLAP
Tech. Officer: JSC/K NEWKIRK
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 3 1984 VANDERBILT UNIVERSITY **8680**
UNSEEDED SCALAR-VELOCITY MEASUREMENTS FOR PROPULSI ON FLOWS
11/18/1996 – 11/06/1999 FY97: $86,537 Total: $86,537
Prin. Invest.: R W PITZ
Tech. Officer: LERC/R G SEASHOLTZ
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 3341 VANDERBILT UNIVERSITY **8681**
INNOVATION RESEARCH PROGRAM "DEVELOPMENT OF A TELE IPULATION OF A MICROSCOPIC ENVIRONMENT"HQNAGW-47
11/02/1996 – 08/31/1997 FY97: $67,752 Total: $67,752
Prin. Invest.: M GOLDFARE
Tech. Officer: GSFC/V THORNE
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAG 5 4291 VANDERBILT UNIVERSITY **8682**
MONTE CARLO MODELS OF SCATTERED LIGHT FROM SOLAR S AROUND LOW MASS YSO'S
04/18/1997 – 08/31/1998 FY97: $30,000 Total: $30,000
Prin. Invest.: D A WEINTRAUB
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4428 VANDERBILT UNIVERSITY **8683**
AN INFRARED SPECTROSCOPIC SURVEY OF ICY GRAINS IN CIRCUMSTELLAR ENVIRONMENTS OF YOUNG STARS
05/06/1997 – 03/31/1998 FY97: $13,000 Total: $13,000
Prin. Invest.: D A WEINTRAUB
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4988 VANDERBILT UNIVERSITY **8684**
MODEL ATMOSPHERES AND SPECTRA FOR EXTRASOLAR GIANT
06/26/1997 – 06/14/1998 FY97: $10,652 Total: $10,652
Prin. Invest.: D SAUMON
Tech. Officer: GSFC/S HOWARD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 1087 VANDERBILT UNIVERSITY **8685**
STUDIES OF NUCLEATION AND GROWTH OF INTERMETALLIC COMPOUNDS
09/15/1994 – 09/14/1996 FY97: $0 Total: $240,000
Prin. Invest.: R J BAYVZICK
Tech. Officer: MSFC/M B ROBINSON, MSFC/B SCHRICK
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 8 1275 VANDERBILT UNIVERSITY **8686**
MICROGRAVITY PROCESSING OF OXIDE SUPERCONDUCTORS
05/30/1996 – 05/31/1998 FY97: $50,000 Total: $150,000
Prin. Invest.: W HOFMEISTER
Tech. Officer: MSFC/C R TALLEY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1298 VANDERBILT UNIVERSITY **8687**
FOR RESEARCH "MODEL-BASED TOOLS FOR REAL-TIME INSTRUMENTATION SYSTEMS"
06/10/1996 – 06/23/1998 FY97: $24,942 Total: $50,962
Prin. Invest.: T A BAPTY
Tech. Officer: MSFC/T F ZOLADZ, MSFC/T R FIORUCCI
CASE Category: 22 – COMPUTER SCIENCE

NAGW 1707 VANDERBILT UNIVERSITY **8688**
ENCAPSULATED LIVING CELLS AS A CURE OF HORMONE DEFICIENCY
06/21/1989 – 01/31/1997 FY97: $0 Total: $2,155,784
Prin. Invest.: T G WANG
Tech. Officer: HQ/R H OTT, HQ/H J CLARKS
CASE Category: 56 – MEDICL

NAGW 3385 VANDERBILT UNIVERSITY **8689**
RELATIVE ABUNDANCE OF ICES IN THE DISKS OF T TAURI STARS: IMPLICATIONS FOR COMET FORMATION
02/16/1993 – 05/31/1997 FY97: $0 Total: $45,000
Prin. Invest.: D A WEINTRAUB
Tech. Officer: HQ/J A NUTH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3764 VANDERBILT UNIVERSITY **8690**
INTERCOMPARTMENTAL FLUID SHIFTS IN RESPONSE TO POS TURAL AND GRAVITATIONAL FORCES
10/06/1993 – 12/31/1996 FY97: $0 Total: $240,000
Prin. Invest.: F A GAFFNEY
Tech. Officer: HQ/F M SULZMAN
CASE Category: 13 – PHYSICS

NAGW 3854 VANDERBILT UNIVERSITY **8691**
VANDERBILT UNIV SCH MEDICINE – ADRENORECEPTOR HYPERSENSITIVITY IN MODELS OF WEIGHTLESSNESS
02/04/1994 – 09/30/1997 FY97: $0 Total: $359,905
Prin. Invest.: I BIAGGIONI
Tech. Officer: HQ/F M SULZMAN
CASE Category: 56 – MEDICL

NAGW 3873 VANDERBILT UNIVERSITY **8692**
NAGW-3873/B VANDERBILT UNIV. "THE SYMPATHETIC NERV OUS SYSTEM IN THE ANEMIA OF WEIGHTLESSNESS"
02/25/1994 – 10/30/1997 FY97: $2 Total: $419,218
Prin. Invest.: D ROBERTSON
Tech. Officer: HQ/F M SULZMAN
CASE Category: 56 – MEDICL

NAGW 4723 VANDERBILT UNIVERSITY **8693**
DEVELOPMENT OF A TELEMICROROBOT FOR TELEMANIPULATI ON OF A MICROSCOPIC ENVIRONMENT
08/31/1995 – 07/31/1998 FY97: $0 Total: $81,000
Prin. Invest.: M GOLDFARB
Tech. Officer: HQ/M A SHEPANEK
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAGW 5020 VANDERBILT UNIVERSITY **8694**
AN INFRARED SPECTROSCOPIC SURVEY
04/01/1996 – 03/31/1997 FY97: $0 Total: $13,000
Prin. Invest.: D A WEINTRAUB
Tech. Officer: HQ/P ROGERS, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 5145 VANDERBILT UNIVERSITY **8695**
MONTE CARLO MODELS OF SCATTERED LIGHT FROM SOLAR S YSTEM SIZED NEBULAE AROUND LOW MASS YSOS
08/23/1996 – 08/31/1997 FY97: $0 Total: $30,000
Prin. Invest.: D A WEINTRAUB
Tech. Officer: HQ/P ROGERS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAS 9 19196 VANDERBILT UNIVERSITY **8696**
AUTONOMIC NEUROPHSIOLOGY IN MICROGRAVITY
09/29/1994 – 02/16/1996 FY97: –$4,752 Total: $133,716
Prin. Invest.: D ROBERTSON
Tech. Officer: JSC/S SAWYER
CASE Category: 56 – MEDICL

NAS 9 19483 VANDERBILT UNIVERSITY **8697**
AUTONOMIC NEUROPHYSIOLOGY IN MICROGRAVITY
02/23/1996 – 10/31/1999 FY97: $253,000 Total: $363,000
Prin. Invest.: D ROBERTSON
Tech. Officer: JSC/A LEE
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 2 992 VANDERBILT UNIVERSITY **8698**
ADSORPTION EQUILIBRIUM FOR TRACE CONTAMINANT CONTR OL AND INCINERATOR EXHAUST PURIFICATION
05/22/1997 – 11/30/1997 FY97: $73,600 Total: $73,600
Prin. Invest.: M D LEVAN
Tech. Officer: ARC/J E FINN
CASE Category: 43 – CHEMICAL ENGR

NCC 8 91 VANDERBILT UNIVERSITY **8699**
INVESTIGATION OF THE RELATIONSHIP BETWEEN UNDER COOLING AND SOLIDIFICATION VELOCITY
05/09/1996 – 01/31/1998 FY97: $110,000 Total: $192,500
Prin. Invest.: R J BAYVZICK
Tech. Officer: MSFC/A DE LOACH
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 8 101 VANDERBILT UNIVERSITY **8700**
EXPERIMENT ON NUCLEATION IN DIFFERENT FLOW REGIMES
05/28/1996 – 05/31/1998 FY97: $430,667 Total: $535,667
Prin. Invest.: R J BAYVZICK
Tech. Officer: MSFC/J BRUNSON
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 40021 VANDERBILT UNIVERSITY **8701**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M ACTIVITIES OF TENNESSEE VALLEY AEROSPACE CORP.
03/13/1990 – 09/30/1997 FY97: $0 Total: $2,582,276
Prin. Invest.: H M STRAUSS
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 50946 VANDERBILT UNIVERSITY **8702**
NGT-50946/VANDERBILT UNIV/GRADUATE STUDENT RESEARCHERS PROGRAM
06/22/1992 – 12/31/1996 FY97: $0 Total: $88,000
Prin. Invest.: R PITZ
Tech. Officer: LERC/F MONTEGANI
CASE Category: 46 – MECHANICAL ENGR

NGT 51044 VANDERBILT UNIVERSITY **8703**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/01/1993 – 12/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: E GARCIA
Tech. Officer: MSFC/F SIX
CASE Category: 46 – MECHANICAL ENGR

NGT 51053 VANDERBILT UNIVERSITY **8704**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/06/1993 – 11/30/1996 FY97: $0 Total: $63,636
Prin. Invest.: T A CRUSE
Tech. Officer: LERC/F MONTEGANI
CASE Category: 46 – MECHANICAL ENGR

NGT 51267 VANDERBILT UNIVERSITY **8705**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/14/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: R J BAYUZICK
Tech. Officer: HQ/G LESANE
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 51356 VANDERBILT UNIVERSITY **8706**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/08/1994 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: R J BAYUZICK
Tech. Officer: HQ/G A LESANE
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 51684 VANDERBILT UNIVERSITY **8707**
GRAD STUDENT RESEARCH PROGRAM
08/07/1996 – 07/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: M GOLDFARD
Tech. Officer: HQ/G LESANE
CASE Category: 46 – MECHANICAL ENGR

NGT 1 52106 VANDERBILT UNIVERSITY **8708**
GRADUATE STUDENT RESEARCHER PROGRAM (GSRP)
06/26/1995 – 08/31/1996 FY97: $0 Total: $22,000
Prin. Invest.: T M BROWN, III, R W PITZ
Tech. Officer: LARC/G L PELLETT, LARC/R W GUY
CASE Category: 43 – CHEMICAL ENGR

NGT 3 52316 VANDERBILT UNIVERSITY **8709**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/31/1996 – 06/30/1998 FY97: $22,000 Total: $28,000
Prin. Invest.: R PITZ
Tech. Officer: LERC/D MONTEGANI
CASE Category: 46 – MECHANICAL ENGR

NGT 5 40054 VANDERBILT UNIVERSITY **8710**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
02/12/1997 – 01/31/1998 FY97: $380,000 Total: $380,000
Prin. Invest.: A M STRAUSS
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 8 52809 VANDERBILT UNIVERSITY **8711**
RESEARCH PROGRAM
08/23/1995 – 08/01/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: D GARCIA
Tech. Officer: MSFC/H WAITES, JPL/B BADA
CASE Category: 46 – MECHANICAL ENGR

NGT 8 52828 VANDERBILT UNIVERSITY **8712**
GRAD STUDENT RESEARCH PROGRAM FOR MARC SAMUELSON
09/25/1996 – 06/30/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: M N SAMUELSON
Tech. Officer: MSFC/H WAITES
CASE Category: 49 – ENGINEERING, OTHER

NGT 8 52831 VANDERBILT UNIVERSITY **8713**
GRAD STUDENT RESEARCHERS PROGRAM FOR BARRY J. DUNN
09/20/1996 – 12/31/1997 FY97: $0 Total: $22,000
Prin. Invest.: B J DUNN
Tech. Officer: MSFC/D WAITES
CASE Category: 46 – MECHANICAL ENGR

NGT 8 52839 VANDERBILT UNIVERSITY **8714**
R/S "GRADUATE STUDENT RESEARCH PROGRAM" FELLOWSHIP
07/23/1997 – 07/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: M GOLDFARB
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 46 – MECHANICAL ENGR

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NAG 5 3712 BAYLOR COLLEGE OF MEDICINE **8715**
ESTABLISHMENT OF THREE DIMENSIONAL PRIMARY HUMAN H MICROGRAVITY ENVIRONMENT
12/11/1996 – 09/30/1997 FY97: $132,508 Total: $132,508
Prin. Invest.: D YOFFE
Tech. Officer: GSFC/B CARPENTER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 8 1383 BAYLOR COLLEGE OF MEDICINE **8716**
FOR RESEARCH ENTITLED "LIVER TISSUE ENGINEERING IN MICROGRAVITY ENVIRONMENT"
06/26/1997 – 11/30/1997 FY97: $84,000 Total: $84,000
Prin. Invest.: B YOFE
Tech. Officer: MSFC/C R TALLEY
CASE Category: 56 – MEDICL

NAG 8 1387 BAYLOR COLLEGE OF MEDICINE **8717**
FOR RESEARCH ENTITLED: "TWO DIMENSIONAL CRYSTAL GROWTH IN MICROGRAVITY"
06/23/1997 – 12/23/1997 FY97: $128,996 Total: $128,996
Prin. Invest.: T G WENSEL
Tech. Officer: MSFC/C TALLEY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 9 754 BAYLOR COLLEGE OF MEDICINE **8718**
MAGNETIC RESONANCE IMAGING AFTER EXPOSURE TO MICRO GRAVITY
09/30/1994 – 10/01/1997 FY97: $0 Total: $50,000
Prin. Invest.: A LEBLANC
Tech. Officer: JSC/D FEEDBACK
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 9 911 BAYLOR COLLEGE OF MEDICINE **8719**
PHASE II OF THE NSBRI
10/18/1996 – 01/10/1997 FY97: $175,000 Total: $175,000
Prin. Invest.: B R ALFORD
Tech. Officer: JSC/DF SAWIN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 4437 BAYLOR COLLEGE OF MEDICINE **8720**
PHYSIOLOGICAL MONITORING WITH MAGNETIC RESONANCE I MAGING
05/04/1995 – 09/30/1997 FY97: $0 Total: $396,519
Prin. Invest.: A LEBLANC
Tech. Officer: HQ/V THORNE
CASE Category: 56 – MEDICL

NAGW 4805 BAYLOR COLLEGE OF MEDICINE **8721**
ESTABLISHMENT OF THREE DIMENSIONAL PRIMARY HUMAN H EPATO-CYTE CULTURES IN MICROGRAVITY ENVIRONMENT
09/28/1995 – 09/30/1998 FY97: $0 Total: $133,497
Prin. Invest.: B YOFFE
Tech. Officer: HQ/B CARPENTER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4993 BAYLOR COLLEGE OF MEDICINE **8722**
A MODEL FOR DOWN REGULATION OF ERYTHROPOIESIS IN S PACE
03/20/1996 – 04/30/1997 FY97: $0 Total: $130,000
Prin. Invest.: C P ALFREY, M.D., PH
Tech. Officer: HQ/V SCHNEIDER
CASE Category: 56 – MEDICL

NAS 9 18065 BAYLOR COLLEGE OF MEDICINE **8723**
ANALYSIS ELECTTROPHORESIS SAMPLES
03/21/1989 – 11/01/1995 FY97: $0 Total: $231,900
Prin. Invest.: M Z ATASSI, R A WELCH
Tech. Officer: JSC/D MORRISON
CASE Category: 56 – MEDICL

NAS 9 18952 BAYLOR COLLEGE OF MEDICINE **8724**
MAGNETIC RESONANCE IMAGING AFTER EXPOSURE TO MICRO GRAVITY
07/28/1993 – 09/15/1997 FY97: $45,006 Total: $352,006
Prin. Invest.: A D LEBLANC
Tech. Officer: JSC/A L PLAZA
CASE Category: 56 – MEDICL

NAS 9 19404 BAYLOR COLLEGE OF MEDICINE **8725**
MAGNETIC RESONANCE IMAGING AFTER EXPOSURE TO MICRO GRAVITY
09/25/1995 – 09/30/1998 FY97: $354,000 Total: $593,440
Prin. Invest.: A LEBLANC
Tech. Officer: JSC/C M BUNTIN
CASE Category: 56 – MEDICL

NCC 9 23 BAYLOR COLLEGE OF MEDICINE **8726**
DEVELOPMENT AND EVALUATION OF A MINIATURE AXIAL FLOW PUMP
02/03/1993 – 12/31/1996 FY97: $0 Total: $1,206,236
Prin. Invest.: M E DEBAKEY, G P NOON
Tech. Officer: JSC/J B HENDERSON
CASE Category: 56 – MEDICL

NCC 9 29 BAYLOR COLLEGE OF MEDICINE **8727**
SHUTTLE/MIR SCIENCE PROGRAM SUPPORT:RED BLOOD CELL MASS AND SURVIVAL
12/19/1994 – 01/01/1998 FY97: $96,000 Total: $306,000
Prin. Invest.: H LANE, C ALFREY
Tech. Officer: JSC/D FEEBACK
CASE Category: 56 – MEDICL

NCC 9 58 BAYLOR COLLEGE OF MEDICINE **8728**
NATIONAL SPACE BIOMEDICAL RESEARCH INSTITUTE
03/26/1997 – 09/30/2002 FY97: $3,508,777 Total: $3,508,777
Prin. Invest.: B R ALFORD, M.D.
Tech. Officer: JSC/C F SAWIN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 9 61 BAYLOR COLLEGE OF MEDICINE **8729**
PREVENTION OF BED REST OSTEOPOROSIS
05/23/1997 – 05/23/2001 FY97: $634,763 Total: $634,763
Prin. Invest.: A D SHACKELTON
Tech. Officer: MSFC/L C SHACKETON
CASE Category: 56 – MEDICL

NCC 9 28 HOUSTON COMMUNITY COLLEGE **8730**
MANUFACTURING EDUCATION USING COMPUTER–AIDED TRAIN ING
07/06/1994 – 01/16/1996 FY97: –$20,376 Total: $189,624
Prin. Invest.: G MORENO
Tech. Officer: JSC/R BURKE
CASE Category: 22 – COMPUTER SCIENCE

NAG 9 775 HUSTON–TILLOTSON COLLEGE **8731**
DIVERSITY IN SCIENCE/ENGINEERING & TECHNOLOGY WOR KFORCE
03/17/1995 – 08/31/1997 FY97: $0 Total: $65,000
Prin. Invest.: N KAY
Tech. Officer: JSC/C HOSKINS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG10 153 HUSTON–TILLOTSON COLLEGE **8732**
EFFECTS OF CHEMICAL AGING OF POLYMERS
04/10/1995 – 04/16/1997 FY97: –$13,806 Total: $261,116
Prin. Invest.: L J BAYE
Tech. Officer: KSC/P D FAUGHNAN
CASE Category: 43 – CHEMICAL ENGR

NAG 5 3776 JARVIS CHRISTIAN COLLEGE **8733**
PACE AWARD. PRECOLLEGE AWARDS FOR EXCELLENCE IN MA GINEER-ING AND TECHNOLOGY
02/25/1997 – 11/30/1997 FY97: $100,000 Total: $100,000
Prin. Invest.: M MCKINNEY
Tech. Officer: GSFC/M STOUTSENBERER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4523 JARVIS CHRISTIAN COLLEGE **8734**
PACE/MSET PROGRAM
05/18/1995 – 03/31/1997 FY97: $0 Total: $100,000
Prin. Invest.: J JOHNSON
Tech. Officer: HQ/B L WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 9 772 LAMAR UNIVERSITY **8735**
COMPREHENSIVE SPACE SCIENCE & TECHNOLOGY EDUCATION PROGRAM TO MOTIVATE K-12 STUDENTS
03/06/1997 – 02/28/1998 FY97: $139,000 Total: $229,000
Prin. Invest.: A V MURALI
Tech. Officer: JSC/D P BLANCHARD
CASE Category: 21 – MATHEMATICS

NAG 9 839 LAMAR UNIVERSITY **8736**
HEAT TRANSFER ANALYSIS
08/17/1995 – 12/01/1996 FY97: -$16,860 Total: $40,554
Prin. Invest.: W E SIMON
Tech. Officer: JSC/M EWERT
CASE Category: 49 – ENGINEERING, OTHER

NAG 9 884 LAMAR UNIVERSITY **8737**
LAB TEST OF INSTRUMENTATION INTENDED FOR REMOTE REGOLITH STUDIES
07/12/1996 – 09/30/1997 FY97: $0 Total: $52,500
Prin. Invest.: D JORDAN
Tech. Officer: JSC/D MCKAY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 8 1221 LE TOURNEAU COLLEGE **8738**
JOVE
11/30/1995 – 08/31/1998 FY97: $22,000 Total: $75,000
Prin. Invest.: D FORD, G ANDREWS
Tech. Officer: MSFC/D SIX
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 3494 MCMURRY COLLEGE **8739**
ULTRASOFT SURVEY OF THE EINSTEIN (HEAO-2) IMAGING DATABASE
11/26/1996 – 11/30/1997 FY97: $13,100 Total: $13,100
Prin. Invest.: R J THOMPSON
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 9 976 OUR LADY OF THE LAKE UNIVERSITY **8740**
SPACE AND GEOSCIENCE PROJECT
09/25/1997 – 07/31/1998 FY97: $193,507 Total: $193,507
Prin. Invest.: J KUEKER
Tech. Officer: JSC/L ARMENDARIZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 2 1154 PRAIRIE VIEW A&M UNIVERSITY **8741**
STUDY OF RADIATION EFFECTS ON INFRARED DETECTORS & MATERIALS FOR SPACE-BASED ASTRONOMY APPLICATIONS
08/27/1997 – 08/31/1998 FY97: $129,532 Total: $129,532
Prin. Invest.: R T WILKINS
Tech. Officer: ARC/C R MCCREIGHT, ARC/G S LEE
CASE Category: 13 – PHYSICS

NAG 3 1500 PRAIRIE VIEW A&M UNIVERSITY **8742**
COMP ANALY OF VISCOUS FLOW THRU NOZZLE BY USING BO TH THE K-E TURB MODEL & THE PD THOMAS TURB MODEL
06/14/1993 – 04/30/1996 FY97: -$9,354 Total: $130,646
Prin. Invest.: I CHANG
Tech. Officer: LERC/E T MELEASON, LERC/D W LAM
CASE Category: 41 – AERONAUTICALENGNR

NAG 3 2065 PRAIRIE VIEW A&M UNIVERSITY **8743**
RADIATION EFFECTS ON DC-DC CONVERTERS RADIATION EFFECTS ON DC-DC CONVERTER
08/01/1997 – 06/30/1999 FY97: $193,888 Total: $193,888
Prin. Invest.: J O ATTIA, R SCHRIMPF, K F GALLOWAY
Tech. Officer: LERC/M D KANKAM
CASE Category: 45 – ELECTRICAL ENGR

NAG 4 129 PRAIRIE VIEW A&M UNIVERSITY **8744**
STUDY OF RADIATION EFFECTS ON ELECTRONICS AT HIGH ATMOSPHERIC ALTITUDES
05/15/1997 – 09/30/1997 FY97: $25,000 Total: $25,000
Prin. Invest.: R WILKINS, T FOGARTY
Tech. Officer: DFRC/K KLOSSEL, LARC/J W WILSON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 2317 PRAIRIE VIEW A&M UNIVERSITY **8745**
THE PLASMA CONFIGURATION OF NEPTUNE'S MAGNETOSPHER E
07/28/1993 – 08/14/1997 FY97: $100,000 Total: $408,000
Prin. Invest.: T S HUANG
Tech. Officer: GSFC/R E HARTLE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 5130 PRAIRIE VIEW A&M UNIVERSITY **8746**
STUDY OF RADIATION EFFECTS ON ELECTRONIC DEVICES AT HIGH ATMOSPHERE ALTITUDES
07/02/1997 – 12/31/1998 FY97: $33,941 Total: $33,941
Prin. Invest.: R WILKINS
Tech. Officer: GSFC/H NEEDLEMAN
CASE Category: 13 – PHYSICS

NAG 8 1334 PRAIRIE VIEW A&M UNIVERSITY **8747**
R/S #RF97-00112 "COMBUSTION CFD TECHNOLOGY STUDY FOR ADVANCED AIRBREATHING PROPULSION SYSTEMS"
02/12/1997 – 02/28/1999 FY97: $100,000 Total: $100,000
Prin. Invest.: Z HGGUE
Tech. Officer: MSFC/P K MC CONNAUGHEY
CASE Category: 49 – ENGINEERING, OTHER

NAG 8 1338 PRAIRIE VIEW A&M UNIVERSITY **8748**
ESTABLISHMENT OF A SOLAR OBSERVATORY AND STUDIES ON THE SOLAR ATMOSPHERE
03/18/1997 – 03/17/1998 FY97: $89,334 Total: $89,334
Prin. Invest.: T HUANG
Tech. Officer: MSFC/J M DAVIS
CASE Category: 11 – ASTRONOMY

NAG 9 631 PRAIRIE VIEW A&M UNIVERSITY **8749**
FLOW BOILING ENHANCEMENT FOR THERMAL MNGT SYSTEMS
09/01/1992 – 12/31/1997 FY97: $25,000 Total: $486,300
Prin. Invest.: W HARWELL
Tech. Officer: JSC/W D HARWELL
CASE Category: 13 – PHYSICS

NAG 9 777 PRAIRIE VIEW A&M UNIVERSITY **8750**
FUZZY EXPERT SYSTEM FOR FAULT MNGT OF WATER SUPPLY AND RECOVERY IN ALSS PROJECT
05/15/1995 – 08/31/1997 FY97: $0 Total: $60,000
Prin. Invest.: J LI
Tech. Officer: JSC/R E ECKEL KAMP
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 9 778 PRAIRIE VIEW A&M UNIVERSITY **8751**
LUNAR OUTPOST CONSTRUCTION AND RADIATION PROTECTIO N
04/04/1995 – 01/01/1998 FY97: $0 Total: $30,000
Prin. Invest.: R RADHARKRISHMAN
Tech. Officer: JSC/J CONNOLLY
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAG 9 779 PRAIRIE VIEW A&M UNIVERSITY **8752**
MICROWAVE IMAGING OF METAL OBJECTS
04/06/1995 – 05/31/1998 FY97: $0 Total: $146,000
Prin. Invest.: C L TOLLIVER, J LI
Tech. Officer: JSC/K KRISTEN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 9 878 PRAIRIE VIEW A&M UNIVERSITY **8753**
ORBITAL DEBRIS RESEARCH CNETER
09/26/1996 – 12/31/1997 FY97: $170,000 Total: $370,000
Prin. Invest.: S B LIN
Tech. Officer: JSC/G CRESS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 9 926 PRAIRIE VIEW A&M UNIVERSITY **8754**
BONE CONDUCTION HEADSET DEVELOPMENT
01/31/1997 – 01/31/1998 FY97: $96,918 Total: $96,918
Prin. Invest.: A KUMARN
Tech. Officer: JSC/E BURRELL
CASE Category: 41 – AERONAUTICAL ENGNR

NAGW 4780 PRAIRIE VIEW A&M UNIVERSITY **8755**
TEXAS GULF COAST ENVIRONMENTAL DATA CENTER
10/04/1995 – 06/30/1996 FY97: $0 Total: $150,601
Prin. Invest.: S SHAKIR
Tech. Officer: HQ/B L WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG13 46 PRAIRIE VIEW A&M UNIVERSITY **8756**
TEXAS GULF COAST ENVIRONMENTAL DATA CENTER SAME
10/04/1995 – 12/13/1997 FY97: $119,524 Total: $119,524
Prin. Invest.: S SHAKIR
Tech. Officer: SSC/A JOYCE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 3 475 PRAIRIE VIEW A&M UNIVERSITY **8757**
LOW COST, WIDE BANDWIDTH, AND HIGH GAIN MICROSTRIP ANTENNA ARRAY FOR SATELITE AND PERSONAL COMMUNICA
05/20/1996 – 05/31/1998 FY97: $21,000 Total: $70,336
Prin. Invest.: D LI, D F LEE
Tech. Officer: LERC/R Q LEE
CASE Category: 45 – ELECTRICAL ENGR

NCC 3 577 PRAIRIE VIEW A&M UNIVERSITY **8758**
RESEARCH TO SIGNIFICANTLY ENHANCE COMPOSITES SURVI ABILITY AT 550 DEGREES F IN OXIDATIVE ENVIRONMENT
09/26/1997 – 08/31/2000 FY97: $100,000 Total: $100,000
Prin. Invest.: L E CARSON–ISABELLE
Tech. Officer: LERC/M A MEADOR
CASE Category: 12 – CHEMISTRY

NCC 5 115 PRAIRIE VIEW A&M UNIVERSITY **8759**
ESTABLISHMENT OF A NASA SOUTHWEST REGIONAL NETWORK RESOURCES TRAINING SITE
08/15/1995 – 09/14/1997 FY97: $1,200,000 Total: $1,690,000
Prin. Invest.: J R WILLIAMS
Tech. Officer: GSFC/J BENNETT
CASE Category: 22 – COMPUTER SCIENCE

NCC 9 40 PRAIRIE VIEW A&M UNIVERSITY **8760**
RESEARCH ON KA BAND
07/28/1995 – 07/31/1997 FY97: $0 Total: $125,000
Prin. Invest.: C TOLLIVER, D BONDYOPADHYAY(BOND
Tech. Officer: JSC/D D ARNDT
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 9 50 PRAIRIE VIEW A&M UNIVERSITY **8761**
TRANSFERRED FROM HQ (NCCW–0086) & INCR FUND
02/13/1997 – 06/30/1998 FY97: $1,910,160 Total: $1,910,160
Prin. Invest.: T N FOGARTY
Tech. Officer: JSC/J D ATKINSON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 9 66 PRAIRIE VIEW A&M UNIVERSITY **8762**
SOFTWARE ENGINEERING INITIATIVE
09/25/1997 – 12/31/1999 FY97: $223,984 Total: $223,984
Prin. Invest.: J D OLIVER
Tech. Officer: JSC/L MCWHORTER, JSC/K MARTINDALE
CASE Category: 49 – ENGINEERING, OTHER

NCCW 86 PRAIRIE VIEW A&M UNIVERSITY **8763**
CENTER FOR APPLIED RADIATION RESEARCH (CARR)
08/04/1995 – 06/30/1997 FY97: $520,000 Total: $2,003,775
Prin. Invest.: T N FOGARTY
Tech. Officer: HQ/B L WHITE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 2 1112 RICE UNIVERSITY **8764**
QUANTUM MECHANICAL MODELING OF CARBON NANOSTRUCTUR ES
02/07/1997 – 12/31/1997 FY97: $87,699 Total: $87,699
Prin. Invest.: G E SCUSERIA
Tech. Officer: ARC/C LEVIT, ARC/D A BAILEY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 3 1851 RICE UNIVERSITY **8765**
COLLISIONAL FREQUENCY SHIFTS NEAR A ZERO ENERGY RE SONANCE
05/06/1996 – 05/05/1998 FY97: $44,000 Total: $119,000
Prin. Invest.: P G MULET
Tech. Officer: LERC/B S SINGH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 1195 RICE UNIVERSITY **8766**
STUDY OF THE SOLAR WIND INTERACTIVE WITH MARS
08/01/1989 – 10/31/1997 FY97: $60,000 Total: $153,711
Prin. Invest.: P A CLOUTIER
Tech. Officer: GSFC/M H ACUNA
CASE Category: 13 – PHYSICS

NAG 5 1515 RICE UNIVERSITY **8767**
MODELING BATSE GAMMA RAY BURST CONTINUUM SPECTRA
04/02/1991 – 01/14/1997 FY97: $0 Total: $282,995
Prin. Invest.: E P LIANG
Tech. Officer: GSFC/J P NORRIS, GSFC/D A KNIFFEN
CASE Category: 11 – ASTRONOMY

NAG 5 1547 RICE UNIVERSITY **8768**
GAMMA RAYS FROM BLACK HOLES: COMPARISON OF GRO OBS ERVATIONS WITH THEORY
04/15/1991 – 11/14/1996 FY97: $0 Total: $259,995
Prin. Invest.: E P LIANG
Tech. Officer: GSFC/J P NORRIS, GSFC/D A KNIFFEN
CASE Category: 11 – ASTRONOMY

NAG 5 1626 RICE UNIVERSITY **8769**
HUBBLE SPACE TELESCOPE RESEARCH
06/07/1991 – 10/31/1997 FY97: $321,000 Total: $1,765,927
Prin. Invest.: C R O'DELL
Tech. Officer: GSFC/S SOBIESKI
CASE Category: 11 – ASTRONOMY

NAG 5 2215 RICE UNIVERSITY **8770**
PEACE INVESTIGATION FOR CLUSTER MISSION
02/17/1993 – 02/28/1998 FY97: $0 Total: $245,015
Prin. Invest.: P H REIFF
Tech. Officer: GSFC/M L GOLDSTEIN
CASE Category: 13 – PHYSICS

NAG 5 2515 RICE UNIVERSITY **8771**
INITIAL OSSE SKY SURVEY OBSERVATIONS: DEEP SURVEY IN VIRGO SURVEY
02/16/1994 – 02/28/1997 FY97: $0 Total: $54,735
Prin. Invest.: R C HAYMES, J D KURFESS
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2677 RICE UNIVERSITY **8772**
A COMPREHENSIVE NEW STUDY OF CARBON AND SILICON ABUNDANCES IN THE ISM OF GALAXIES
08/11/1994 – 08/14/1996 FY97: $0 Total: $37,422
Prin. Invest.: R J DUFOUR
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2689 RICE UNIVERSITY **8773**
CREATING THE PUBLIC CONNECTION: INTERACTIVE EXPERIENCES WITH REAL-TIME EARTH AND SPACE SCIENCE
08/24/1994 – 09/30/1997 FY97: $148,000 Total: $860,163
Prin. Invest.: P REIF
Tech. Officer: GSFC/N LAL
CASE Category: 11 – ASTRONOMY

NAG 5 2736 RICE UNIVERSITY **8774**
NATIONAL SOFTWARE EXCHANGE FOR THE HIGH PERFORMANC COMPUTING COMMUNICATIONS PROGRAM
09/22/1994 – 03/31/1998 FY97: $1,074,060 Total: $3,277,560
Prin. Invest.: K KENNEDY
Tech. Officer: GSFC/J R FISCHER
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2772 RICE UNIVERSITY **8775**
STUDY OF GAMMA-RAY BURSTS FROM EARTH
10/26/1994 – 10/31/1996 FY97: $0 Total: $75,000
Prin. Invest.: F C MICHEAL
Tech. Officer: GSFC/J NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3045 RICE UNIVERSITY **8776**
PLATE MOTION REGIONAL DEFORMATION AND TIME VARIATION OF PLATE MOTION FROM STUDIES INTEGRATING
08/21/1995 – 03/31/1998 FY97: $55,000 Total: $138,026
Prin. Invest.: R GORDON
Tech. Officer: GSFC/B BILLS
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 3070 RICE UNIVERSITY **8777**
NUMERICAL SIMULATION OF ACTIVE PULSARS
09/14/1995 – 09/14/1998 FY97: $70,000 Total: $210,000
Prin. Invest.: F C MICHEL
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3216 RICE UNIVERSITY **8778**
DATA ANALYSIS FOR POLAR MAGNETIC FIELD EXPERIMENT
04/26/1996 – 04/30/1998 FY97: $50,000 Total: $100,000
Prin. Invest.: P H REIFF
Tech. Officer: GSFC/R A HOFFMAN
CASE Category: 13 – PHYSICS

NAG 5 3353 RICE UNIVERSITY **8779**
ISO STUDY OF SOFT GAMMA-RAY REPEATER COUNTERPARTS
08/09/1996 – 08/14/1998 FY97: $0 Total: $9,000
Prin. Invest.: I A SMITH
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3824 RICE UNIVERSITY **8780**
STUDY OF SOFT GAMMA RAY REPEATERS
01/29/1997 – 11/14/1997 FY97: $114,231 Total: $114,231
Prin. Invest.: E P LIANG
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 4055 RICE UNIVERSITY **8781**
NUMERICAL SIMULATION OF HIGH ENERGY EMISSIONS FROM
03/11/1997 – 03/14/1998 FY97: $90,000 Total: $90,000
Prin. Invest.: E T LIANG
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4072 RICE UNIVERSITY **8782**
NASA SPECIALIZED CENTER OF RESEARCH AND TRAINING (AL BIOLOGY
04/07/1997 – 02/28/1998 FY97: $843,567 Total: $843,567
Prin. Invest.: L MCINTIRE
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 4267 RICE UNIVERSITY **8783**
COMPREHENSIVE COMPUTATIONAL MODEL OF THE EARTH'S R
03/25/1997 – 05/14/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: D A WOLF
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 4726 RICE UNIVERSITY **8784**
DEVELOPMENT AND APPLICATIONS OF A MODULAR MODEL OF MAGNETOSPHERE
06/19/1997 – 05/14/1998 FY97: $86,527 Total: $86,527
Prin. Invest.: D R TOFFOLETTO
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 4822 RICE UNIVERSITY **8785**
THE OPEN POLAR CAP: COMPARISON OF POLAR IMAGES WI
06/17/1997 – 06/14/1998 FY97: $92,000 Total: $92,000
Prin. Invest.: D W HILL
Tech. Officer: GSFC/J GREBOWSKY
CASE Category: 13 – PHYSICS

NAG 5 4909 RICE UNIVERSITY **8786**
A PROCESS LEVEL STUDY OF METHANE EMISSIONS FROM RI
06/19/1997 – 03/31/1998 FY97: $170,738 Total: $170,738
Prin. Invest.: R L SASS
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4958 RICE UNIVERSITY **8787**
"GROUND MEASUREMENTS IN SUPPORT OF BIOSAR EXPERIME
07/15/1997 – 06/30/1998 FY97: $30,000 Total: $30,000
Prin. Invest.: P HARCOMBE
Tech. Officer: GSFC/M IMHOFF
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 8 1196 RICE UNIVERSITY **8788**
JOVE
12/11/1995 – 12/10/1996 FY97: $0 Total: $5,806
Prin. Invest.: D TEEMAN, D WOLF
Tech. Officer: MSFC/F SIX
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 1232 RICE UNIVERSITY **8789**
RESEARCH, NOVEL NONLENEAR OPTICAL POLYDIACETYLENES POSSESSING LIQUID CRYSTALLINE PROPERTIES
09/20/1996 – 09/19/1997 FY97: $0 Total: $14,983
Prin. Invest.: N HALES, W E BILLUPS
Tech. Officer: MSFC/D O FRAZIER, MSFC/B O PENN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 9 740 RICE UNIVERSITY **8790**
MYOELECTRIC TELEOPERATION FOR ROBOTICS & PROSTHETI CS
05/31/1994 – 05/31/1996 FY97: –$2,546 Total: $57,449
Prin. Invest.: I D WALKER
Tech. Officer: JSC/C HESS
CASE Category: 45 – ELECTRICAL ENGR

NAG 9 838 RICE UNIVERSITY **8791**
COMPACT LASER MULTI GAS SPECTRAL
08/25/1995 – 08/31/1996 FY97: $0 Total: $54,096
Prin. Invest.: F K TITTEL
Tech. Officer: JSC/J GRAF
CASE Category: 13 – PHYSICS

NAG 9 845 RICE UNIVERSITY **8792**
MYOELECTRIC TELEOPERATION
08/24/1995 – 09/01/1996 FY97: $0 Total: $57,600
Prin. Invest.: I D WALKER
Tech. Officer: JSC/C HESS
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 9 850 RICE UNIVERSITY **8793**
SIMULATION OF FLOW WITH SOLIDIFICATION IN A MICRO GRAVITY ENVIRONMENT
10/12/1995 – 11/01/1996 FY97: $0 Total: $29,785
Prin. Invest.: B RAMASWAMY
Tech. Officer: JSC/C H LIN
CASE Category: 46 – MECHANICAL ENGR

NAG 9 929 RICE UNIVERSITY **8794**
EVALUATION OF ADVANCED MATERIALS FOR HYPERVELOCITY IMPACT SHIELDING PHASE I
05/20/1997 – 05/20/1998 FY97: $66,046 Total: $66,046
Prin. Invest.: Y C ANGEL
Tech. Officer: JSC/J L CREWS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 9 948 RICE UNIVERSITY **8795**
ANALYTICAL MODELING OF A CRYOGENIC TANK
07/07/1997 – 09/30/1997 FY97: $50,871 Total: $50,871
Prin. Invest.: Y BAYAZITOGLU
Tech. Officer: JSC/T A PETERS
CASE Category: 46 – MECHANICAL ENGR

NAGW 1655 RICE UNIVERSITY **8796**
MAGNETOSPHERIC AND AURORAL PROCESSES
02/24/1989 – 12/31/1997 FY97: $0 Total: $825,300
Prin. Invest.: P H REIFF
Tech. Officer: HQ/M M MELLOTT, HQ/T W PERRY
CASE Category: 13 – PHYSICS

NAGW 2826 RICE UNIVERSITY **8797**
COUPLING OF THE LOW-LATITUDE BOUNDARY LAYER TO THE MAGNETOSPHERIC INTERIOR
01/15/1992 – 12/31/1996 FY97: $0 Total: $124,045
Prin. Invest.: R A WOLF
Tech. Officer: HQ/E C WHIPPLE, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 2845 RICE UNIVERSITY **8798**
NON CONTACT THERMAL, PHYSICAL PROPERTY MEASUREMENT S OF MULTI COMPONENTS, MULTIPHASE SYSTEMS AT RICE
01/24/1992 – 05/31/1996 FY97: $0 Total: $394,000
Prin. Invest.: R H HAUGE, J L MARBRAVE
Tech. Officer: HQ/B M CARPENTER
CASE Category: 13 – PHYSICS

NAGW 4004 RICE UNIVERSITY **8799**
"MEASUREMENT OF ELECTRON IMPACT CROSS SECTIONS OF IMPORTANCE"
05/09/1994 – 09/30/1997 FY97: $0 Total: $238,916
Prin. Invest.: K SMITH
Tech. Officer: HQ/M M MELLOTT, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4035 RICE UNIVERSITY **8800**
NUMERICAL SIMULATION OF POTATION-DRIVEN PLASMA TRANSPORT IN THE JOVIAN MAGNETOSPHERE
06/03/1994 – 12/31/1997 FY97: $0 Total: $179,000
Prin. Invest.: R A WOLF, NONE
Tech. Officer: HQ/E C WHIPPLE, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4173 RICE UNIVERSITY **8801**
GEOCHEMISTRY AND COSMOCHMESITRY OF FULLERNESS
10/18/1994 – 06/30/1998 FY97: $0 Total: $14,976
Prin. Invest.: D HEYMANN
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAGW 4635 RICE UNIVERSITY **8802**
A PROCESS LEVEL STUDY OF METHANE EMMISSIONS FROM R ICE FIELDS
07/31/1995 – 09/30/1997 FY97: $0 Total: $370,280
Prin. Invest.: R L SASS, F M FISHER
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4685 RICE UNIVERSITY **8803**
WORKSHOPS ON REGIONAL ASSESMENT OF TRACE
08/16/1995 – 06/30/1998 FY97: $0 Total: $30,000
Prin. Invest.: R L SASS
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 5007 RICE UNIVERSITY **8804**
NASA SPECIALIZED CENTER OF RESEARCH
03/20/1996 – 05/31/1997 FY97: $0 Total: $867,248
Prin. Invest.: L V MCINTIRE, PH.D.
Tech. Officer: HQ/V THORNE
CASE Category: 11 – ASTRONOMY

NAS 3 97017 RICE UNIVERSITY **8805**
NRA-INTERFACIAL CONTROL OF HIGH TEMPERATURE FIBER/ MATRRIX COMPOSITES VIA NOVEL PRECURSOR CHEMISTRY
11/27/1996 – 11/27/1997 FY97: $59,740 Total: $59,740
Prin. Invest.: A R BARRON, D L CALLAHAN
Tech. Officer: LERC/S FARMER
CASE Category: 12 – CHEMISTRY

NAS 9 19553 RICE UNIVERSITY **8806**
COMPACT MID-INFRARED LASER BASED SENSORS FOR TRACE GAS DETECTION
06/01/1996 – 12/31/1998 FY97: $145,882 Total: $330,882
Prin. Invest.: F TITTLE
Tech. Officer: JSC/H E DAVIS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 1 212 RICE UNIVERSITY **8807**
THE ADIFOR AUTOMATIC DIFFERENTIATOR: FLEXIBLE, ACCURATE, AND EFFICIENT ENABLING TECHNOLOGY FOR
03/23/1995 – 10/15/1996 FY97: -$1 Total: $67,500
Prin. Invest.: A CARLE, J E DENNIS
Tech. Officer: LARC/L L GREEN, LARC/P A NEWMAN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 1 234 RICE UNIVERSITY **8808**
AUTOMATED ADJOINT GENERATION MY 1/3
07/03/1996 – 11/30/1997 FY97: $50,000 Total: $99,979
Prin. Invest.: A CARLE
Tech. Officer: LARC/L L GREEN
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NCC 1 236 RICE UNIVERSITY **8809**
INCREMENTAL ITERATIVE SENSITIVITIES FOR PVM- OVERFLOW
07/17/1996 – 07/16/1998 FY97: $0 Total: $49,978
Prin. Invest.: A CARLE, M FAGAN
Tech. Officer: LARC/L L GREEN
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NCC 2 5008 RICE UNIVERSITY **8810**
SILICON AND CARBON ABUNDANCES IN THE ORION NEBULA AND PLANETARY NEBULA
10/21/1993 – 09/30/1995 FY97: $0 Total: $50,780
Prin. Invest.: R J DUFOUR
Tech. Officer: ARC/A G TIELENS
CASE Category: 11 – ASTRONOMY

NCC 2 5199 RICE UNIVERSITY **8811**
ORION NEBULA AND PLANETARY NEBULAE
12/19/1996 – 08/31/1998 FY97: $14,519 Total: $14,519
Prin. Invest.: R J DUFOUR
Tech. Officer: ARC/DGOORVITCH
CASE Category: 11 – ASTRONOMY

NGT 51050 RICE UNIVERSITY **8812**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/02/1993 – 03/31/1996 FY97: -$7,636 Total: $36,364
Prin. Invest.: B AAZHANG
Tech. Officer: JSC/S GOLSDSTEIN
CASE Category: 46 – MECHANICAL ENGR

NGT 51186 RICE UNIVERSITY **8813**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/29/1993 – 01/01/1997 FY97: $0 Total: $66,000
Prin. Invest.: P A CLOUTIER
Tech. Officer: GSFC/MBURRELL
CASE Category: 13 – PHYSICS

NGT 51230 RICE UNIVERSITY **8814**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/08/1994 – 09/15/1997 FY97: $0 Total: $66,000
Prin. Invest.: A J MEADE, JR
Tech. Officer: JSC/SGOLDSTEIN
CASE Category: 46 – MECHANICAL ENGR

NGT 51376 RICE UNIVERSITY **8815**
GRADUATE STUDIES RESEARCHERS PROGRAM
06/26/1995 – 07/14/1997 FY97: $0 Total: $44,000
Prin. Invest.: D HEYMANN
Tech. Officer: HQ/D HOLLAND
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 51382 RICE UNIVERSITY **8816**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/05/1995 – 09/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: P H REITT
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 70353 RICE UNIVERSITY **8817**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/02/1993 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: A MEADE
Tech. Officer: HQ/D K RUSSELL
CASE Category: 46 – MECHANICAL ENGR

NGT 90140 RICE UNIVERSITY **8818**
NGT-90140/RICE UNIV/UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
10/09/1992 – 08/14/1996 FY97: $0 Total: $36,000
Prin. Invest.: R STABELL
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90165 RICE UNIVERSITY **8819**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/27/1993 – 08/14/1996 FY97: –$4,000 Total: $28,000
Prin. Invest.: R STABELL
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 34 RICE UNIVERSITY **8820**
THE SOLAR WIND INTERACTION WITH THE MARTIAN ATMOSP HERE
07/24/1996 – 08/31/1997 FY97: $0 Total: $22,000
Prin. Invest.: P A CLOUTIER
Tech. Officer: GSFC/G A SOFFEN, GSFC/M ACUNA
CASE Category: 11 – ASTRONOMY

NGT 5 50057 RICE UNIVERSITY **8821**
THE COMPOSITION AND GEOLOGIC SETTING OF LUNAR FAR
07/28/1997 – 07/14/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D HEYMANN
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50119 RICE UNIVERSITY **8822**
DATA ANALYSIS IN SUPPORT OF GLOBAL GEOSPACE SCIENC
09/06/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: P H REIFF
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90021 RICE UNIVERSITY **8823**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
01/27/1997 – 08/14/1997 FY97: $12,000 Total: $12,000
Prin. Invest.: R STABELL
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NGT 8 52814 RICE UNIVERSITY **8824**
GRAD STUDENT RESEARCHERS PROGRAM
07/25/1996 – 07/01/1999 FY97: $22,000 Total: $44,000
Prin. Invest.: A W CRIPER
Tech. Officer: MSFC/G FISHMAN
CASE Category: 13 – PHYSICS

NGT 8 52834 RICE UNIVERSITY **8825**
GRADUATE STUDENT RESEARCHERS PROGRAM FOR DONNA DEMPSEY
09/26/1996 – 06/30/1999 FY97: $22,000 Total: $44,000
Prin. Invest.: T W HILL
Tech. Officer: MSFC/T MOORE
CASE Category: 13 – PHYSICS

NGT 9 2 RICE UNIVERSITY **8826**
FAILURE TOLERANT CONTROL SPACE ROBOTIC MANIPULATOR
05/31/1995 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: E V BARRERA
Tech. Officer: JSC/D G SICKOREZ
CASE Category: 45 – ELECTRICAL ENGR

NGT 9 9 RICE UNIVERSITY **8827**
ANALYSIS OF MECHANICAL LOADING EFECTS
07/03/1996 – 06/30/1998 FY97: $0 Total: $22,000
Prin. Invest.: A G MIKOS
Tech. Officer: JSC/D G SICKOREZ
CASE Category: 56 – MEDICL

NGT 9 23 RICE UNIVERSITY **8828**
UNDERSTANDING PROPERTIES OF NANOTUBE REINFORCED ..
05/30/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: E V BARRERA
Tech. Officer: JSC/D G SICKOREZ
CASE Category: 49 – ENGINEERING, OTHER

NAG 9 975 SAN ANTONIO COLLEGE **8829**
SPACE AND GEOSCIENCE PROJECT
09/25/1997 – 07/31/1998 FY97: $193,797 Total: $193,797
Prin. Invest.: C GONZALES
Tech. Officer: JSC/LARMENDARIZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 4562 SOUTHERN METHODIST UNIVERSITY **8830**
CORONAE AND CHASMATA:IMPLICATIONS FOR TERRRESTRIAL
05/29/1997 – 05/14/1998 FY97: $58,116 Total: $58,116
Prin. Invest.: D L HANSEN
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4609 SOUTHERN METHODIST UNIVERSITY **8831**
TETONIC EVOLUTION OF PLANET SURFACES
05/19/1997 – 05/14/1998 FY97: $20,626 Total: $20,626
Prin. Invest.: D L HANSEN
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2915 SOUTHERN METHODIST UNIVERSITY **8832**
STRUCTURAL, KINEMATIC, AND STRAIN HISTORY ANALYSIS
02/27/1992 – 08/31/1997 FY97: $5,000 Total: $239,874
Prin. Invest.: V L HANSEN
Tech. Officer: HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 1 631 SOUTHWEST TEXAS STATE UNIVERSITY **8833**
TRIFLUOROMETHYL – SUBSTITUTED POLYIMIDINES
01/14/1986 – 01/14/1998 FY97: $69,927 Total: $551,412
Prin. Invest.: P E CASSIDY
Tech. Officer: LARC/A K ST CLAIR, LARC/D M STOAKLEY
CASE Category: 12 – CHEMISTRY

NAG 8 1367 SOUTHWEST TEXAS STATE UNIVERSITY **8834**
A NASA/UNIVERSITY JOINT VENTURE IN SPACE SCIENCE (JOVE). PROVIDES 1ST YEAR FUNDING
05/28/1997 – 08/31/1998 FY97: $23,557 Total: $23,557
Prin. Invest.: S F TARSITANO
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NGT 70271 SOUTHWEST TEXAS STATE UNIVERSITY **8835**
NGT–70271/SOUTHWEST TEXAS STATE UNIV/GRADUATE STUDENT RESEARCHERS PROGRAM
06/29/1992 – 09/30/1995 FY97: –$817 Total: $65,183
Prin. Invest.: P E CASSIDY
Tech. Officer: LARC/E J PRIOR
CASE Category: 12 – CHEMISTRY

NAG 1 1618 TEXAS A&M UNIVERSITY **8836**
WAVELET GALERKIN METHODS AND MULTIRESOLUTION ANALYSIS IN COMPUTATION MECHANICS
04/21/1994 – 05/31/1997 FY97: $0 Total: $85,806
Prin. Invest.: A KURDILA, T STRGANAC, R LAZAROV
Tech. Officer: LARC/J M HOUSNER
CASE Category: 46 – MECHANICAL ENGR

NAG 1 1753 TEXAS A&M UNIVERSITY **8837**
APPLICATION OF ARTIFICAL NEURAL NETWORKS FOR THE C ALIBRATION OF 5–HOLE PROBE
09/18/1995 – 10/31/1997 FY97: $35,450 Total: $59,916
Prin. Invest.: D K REDINIOTIS
Tech. Officer: LARC/W L SELLERS, III
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1784 TEXAS A&M UNIVERSITY **8838**
A PROGRESSIVE DAMAGE MODEL FOR LAMINATED COMPOSITE SUBJECTED TO FATIGUE LOADING
12/18/1995 – 12/17/1997 FY97: $29,956 Total: $98,384
Prin. Invest.: D H ALLEN
Tech. Officer: LARC/I S RAJU, LARC/C C POE, JR.
CASE Category: 49 – ENGINEERING, OTHER

NAG 1 1896 TEXAS A&M UNIVERSITY **8839**
OBSERVATIONAL AND MODELING STUDIES OF TRANSPORT AND MIXING IN THE STRATOSPHERE AND TROPOSPHERE
02/21/1997 – 01/31/1998 FY97: $73,929 Total: $73,929
Prin. Invest.: K P BOWMAN
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1950 TEXAS A&M UNIVERSITY **8840**
DIGISTAR: A LOW COST STAR TRACKER FOR MICRO– SPACECRAFT
06/30/1997 – 12/15/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: T C POLLOCK, J L JUNKIS
Tech. Officer: LARC/J JUANG, LARC/M R KOCK
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 3 891 TEXAS A&M UNIVERSITY **8841**
CYOGENIC DAMPERS VERIFICATION
02/29/1988 – 12/26/1995 FY97: $0 Total: $493,004
Prin. Invest.: A B PALAZZOLO
Tech. Officer: LERC/AF KASCAK
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1434 TEXAS A&M UNIVERSITY **8842**
THERMOHYDRODYNAMIC ANALYSIS OF CRYOGENIC LIQUID TU RBULENT FLOW FLUID FILM BEARINGS
01/11/1993 – 12/31/1996 FY97: $0 Total: $292,613
Prin. Invest.: L SAN ANDRES
Tech. Officer: LERC/J F WALKER
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1542 TEXAS A&M UNIVERSITY **8843**
ACTIVE CONTROL OF VIBRATION SUBTOPIC – HIGH TEMPERATURE MAGNETIC THRUST BEARING DEVELOPMENT
09/29/1993 – 06/30/1997 FY97: $0 Total: $152,490
Prin. Invest.: A B PALAZZOLO
Tech. Officer: LERC/A F KASCAK
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1556 TEXAS A&M UNIVERSITY **8844**
COMPUTATIONAL METHODS FOR ACTIVE CONTROL OF ROTOR VIBRATION
01/04/1994 – 04/03/1997 FY97: –$584 Total: $119,416
Prin. Invest.: A B PALLAZZOLO
Tech. Officer: LERC/C LAWRENCE
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1656 TEXAS A&M UNIVERSITY **8845**
HIGH TURBULENC EFFECTS ON TURBINE BLADE FILM COOLING HEAT TRANSFER PERFORMANCE USING TRANSIENT LIQUI
08/11/1994 – 02/28/1998 FY97: $73,144 Total: $249,296
Prin. Invest.: J C HAN
Tech. Officer: LERC/P E POINSATTE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1789 TEXAS A&M UNIVERSITY **8846**
FURTHER DEVELOPMENT OF GETRAN
09/22/1995 – 02/10/1997 FY97: $0 Total: $35,000
Prin. Invest.: M T SCHOBEIRI
Tech. Officer: LERC/D E PAXSON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1821 TEXAS A&M UNIVERSITY **8847**
COMPUTATIONAL METHODS FOR ACTIVE CONTROL 9OF ROTOR VIBRATION
05/20/1996 – 02/19/1998 FY97: $0 Total: $59,954
Prin. Invest.: A B PALAZZOLO
Tech. Officer: LERC/A F KASCAK
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1980 TEXAS A&M UNIVERSITY **8848**
LOCAL HEAT TRANSFER DISTRIBUTIONS ROTATING MULTIPASS PASSAGES IN TURBINE AIRFOILS W/WO FILM EJECTION
11/01/1996 – 10/31/1998 FY97: $89,161 Total: $89,161
Prin. Invest.: S C LAU
Tech. Officer: LERC/S A HIPPENSTEELE
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1989 TEXAS A&M UNIVERSITY **8849**
FAIL SAFE MAGNETIC BEARING DEVELOPMENT
11/15/1996 – 10/31/1997 FY97: $69,659 Total: $69,659
Prin. Invest.: A B PALAZZOLO
Tech. Officer: LERC/G T MONTAGUE
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1990 TEXAS A&M UNIVERSITY **8850**
COMPUTATIONAL SOFTWARE FOR MAGNETIC BEARING SYSTEM DEVELOPMENT
11/15/1996 – 10/31/1997 FY97: $47,202 Total: $47,202
Prin. Invest.: A B PALAZZOLO
Tech. Officer: LERC/G T MONTAGUE
CASE Category: 46 – MECHANICAL ENGR

NAG 3 2002 TEXAS A&M UNIVERSITY **8851**
TURBINE BLADE TIP HEAT TRANSFER & FILM COOLING STU DY USING A TRANSIENT LIQUID CRYSTAL IMAGE METHOD
01/21/1997 – 12/30/1999 FY97: $75,687 Total: $75,687
Prin. Invest.: J C HAN, S V EKKAD
Tech. Officer: LERC/R J BOYLE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 2015 TEXAS A&M UNIVERSITY **8852**
INTREGRATION OF NASA WAVE ROTOR COMPONENT INTO FET RAN
04/02/1997 – 02/20/1998 FY97: $27,000 Total: $27,000
Prin. Invest.: M T SCHOBEIRI
Tech. Officer: LERC/D E PAXSON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 4 106 TEXAS A&M UNIVERSITY **8853**
R&D OF AN INTEGRATEED CIRCUIT IMPLEMENTATION OF SIGNAL CONDITIONING A/C FOR SIMULTANEOUS MEASURE.
03/15/1996 – 06/01/1998 FY97: $26,928 Total: $80,334
Prin. Invest.: D EMBABI
Tech. Officer: DFRC/A PARKER, JR.
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 673 TEXAS A&M UNIVERSITY **8854**
INVESTIGATION OF BALLOON MATERIAL PROPERTIES EXPOSED TO THE LOW EARTH ORBIT ENVIRONMENT
10/19/1990 – 12/31/1997 FY97: $0 Total: $259,556
Prin. Invest.: T W STRGANAC
Tech. Officer: GSFC/I S SMITH, GSFC/H C NEEDLEMAN
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 5 1423 TEXAS A&M UNIVERSITY **8855**
PARTICIPATION IN TRMM–1 AIRCRAFT EXPERIMENT
08/02/1990 – 05/14/1997 FY97: $0 Total: $307,410
Prin. Invest.: T T WILHEIT
Tech. Officer: GSFC/J R WANG, GSFC/J C SHIUE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 1568 TEXAS A&M UNIVERSITY **8856**
RADIOMETER TEAM LEADER
05/31/1991 – 07/31/1997 FY97: $10,000 Total: $550,361
Prin. Invest.: T T WILHEIT
Tech. Officer: GSFC/J WEINMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 1569 TEXAS A&M UNIVERSITY **8857**
VALIDATION AND TRANSFERABILITY OF TROPICAL RAIN ESTIMATION METHODS
05/13/1991 – 09/30/1997 FY97: $185,000 Total: $1,478,427
Prin. Invest.: E ZIPSER
Tech. Officer: GSFC/O THIELE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 1590 TEXAS A&M UNIVERSITY **8858**
STATISTICAL STUDIES FOR THE TROPICAL RAINFALL MEAS URING MISSION
06/24/1991 – 08/31/1997 FY97: $10,000 Total: $516,723
Prin. Invest.: G R NORTH
Tech. Officer: GSFC/T BELL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2778 TEXAS A&M UNIVERSITY **8859**
STATISTICAL RESEARCH FOR PRECIPITATION MISSIONS
10/28/1994 – 02/29/1996 FY97: –$325 Total: $74,675
Prin. Invest.: G R NORTH
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3753 TEXAS A&M UNIVERSITY **8860**
"THE REMOTE SENSING OF MINERAL AEROSOLS AND THEIR PHYTOPLANKTON PRODUCTIVITY USING SEAWIFS"
11/18/1996 – 08/31/1997 FY97: $45,575 Total: $45,575
Prin. Invest.: N W TINDALE
Tech. Officer: GSFC/N MAYNARD
CASE Category: 33 – OCEANOGRAPHY

NAG 5 3754 TEXAS A&M UNIVERSITY **8861**
SKELETAL MUSCLE ARTERIOLAR ADAPTATIONS TO STIMULAT
11/22/1996 – 11/14/1997 FY97: $121,198 Total: $121,198
Prin. Invest.: M D DELP
Tech. Officer: GSFC/M A SHEPANEK
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 3966 TEXAS A&M UNIVERSITY **8862**
CHARACTERIZATION OF THE SPATIAL–TEMPORAL VARIABILI BY REMOTE SENSING
03/03/1997 – 12/31/1997 FY97: $95,000 Total: $95,000
Prin. Invest.: J B VALDES
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4746 TEXAS A&M UNIVERSITY **8863**
MICROWAVE RADIOMETER AND MULTI–INSTRUMENT ALGORITH
06/26/1997 – 06/30/1998 FY97: $108,000 Total: $108,000
Prin. Invest.: T T WILHEIT
Tech. Officer: GSFC/J A WEINMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4753 TEXAS A&M UNIVERSITY **8864**
STATISTICAL SAMPLING AND ESTIMATION PROBLEMS USING
06/27/1997 – 06/30/1998 FY97: $70,000 Total: $70,000
Prin. Invest.: G R NORTH
Tech. Officer: GSFC/O W THEILE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4776 TEXAS A&M UNIVERSITY **8865**
VALIDATION AND ESTIMATES OF TROPICAL RAIN AND DIAB
06/27/1997 – 06/30/1998 FY97: $140,000 Total: $140,000
Prin. Invest.: M I BIGGERSTAFF
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4796 TEXAS A&M UNIVERSITY **8866**
VALIDATION AND TRANSFERABILITY OF TROPICAL RAIN
08/22/1997 – 09/30/1998 FY97: $150,000 Total: $150,000
Prin. Invest.: E ZIPSER
Tech. Officer: GSFC/O THIELE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 299 TEXAS A&M UNIVERSITY **8867**
MODELING AND DIAGNOSING TROPICAL MOISTURE VARITION
10/21/1993 – 07/20/1997 FY97: $0 Total: $208,980
Prin. Invest.: J P MC GUIRK
Tech. Officer: MSFC/J W KAUFMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 1100 TEXAS A&M UNIVERSITY **8868**
JOVE
10/18/1994 – 07/31/1997 FY97: $0 Total: $61,000
Prin. Invest.: H G BLOUNT II
Tech. Officer: MSFC/F SIX
CASE Category: 11 – ASTRONOMY

NAG 8 1131 TEXAS A&M UNIVERSITY **8869**
ENHANCED SIMULATION FOR ROCKET TURBOPUMP
04/13/1995 – 06/11/1997 FY97: $0 Total: $48,998
Prin. Invest.: A B PALAZZOLO
Tech. Officer: MSFC/J DARDEN, MSFC/E M EARHART
CASE Category: 22 – COMPUTER SCIENCE

NAG 8 1200 TEXAS A&M UNIVERSITY **8870**
GLOBAL DISTRIBUTION OF TROPICAL RAINFALL
09/20/1995 – 09/30/1996 FY97: $0 Total: $75,000
Prin. Invest.: E J ZIPSER, J P MCGUIRK
Tech. Officer: MSFC/S J GOODMAN, MSFC/H M GOODMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 1343 TEXAS A&M UNIVERSITY **8871**
FOR RESEARCH "ACTIVE VIBRATION CONTROL SYSTEM DEVLOPMENT FOR MICROGRAVITY ISOLATION"
04/14/1997 – 02/14/1998 FY97: $30,000 Total: $30,000
Prin. Invest.: A B PALAZZOLO
Tech. Officer: MSFC/M S WHORTON, MSFC/D C ALHORN
CASE Category: 46 – MECHANICAL ENGR

NAG 8 1395 TEXAS A&M UNIVERSITY **8872**
R/S "BULK FLOW ANALYSIS OF HYBRID THRUST BEARINGS FOR ADVANCED CRYOGENIC TURBOPUMPS"
07/21/1997 – 06/30/1998 FY97: $36,000 Total: $36,000
Prin. Invest.: L SAN ANDREAS
Tech. Officer: MSFC/R THOM
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 9 331 TEXAS A&M UNIVERSITY **8873**
SPACE RADIATION/MATERIALS/DEVICES
01/15/1989 – 02/01/1998 FY97: $0 Total: $484,412
Prin. Invest.: J S LINDER
Tech. Officer: JSC/CHERMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 9 491 TEXAS A&M UNIVERSITY **8874**
ROBUST ADAPTIVE CONTROL TECHNOLOGY FOR ADVANCED SPACED SPACE SYSTEMS
01/01/1991 – 08/31/1996 FY97: –$158 Total: $149,841
Prin. Invest.: A G CARLOS
Tech. Officer: JSC/J W SUNKEL
CASE Category: 49 – ENGINEERING, OTHER

NAG 9 669 TEXAS A&M UNIVERSITY **8875**
FEASIBILITY OF LETTUCE GROWTH AT HYPOXIC AND SUBAMBIENT TOTAL GAS PRESSURE
04/01/1993 – 08/01/1996 FY97: $0 Total: $112,463
Prin. Invest.: M DREW, R STAHL, M DRAW
Tech. Officer: JSC/D HENNINGER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 9 787 TEXAS A&M UNIVERSITY **8876**
KC–135 FLIGHT TESTING
05/25/1995 – 08/31/1996 FY97: $0 Total: $55,907
Prin. Invest.: F R BEST
Tech. Officer: JSC/K M HURLBERT
CASE Category: 49 – ENGINEERING, OTHER

NAG 9 798 TEXAS A&M UNIVERSITY **8877**
TECHNIQUES FOR IMPROVING PERFORMANCE OF FUTURE EVA MANEUVERING SYSTEM
06/16/1995 – 12/18/1995 FY97: –$1,482 Total: $8,518
Prin. Invest.: D R AVRESLY
Tech. Officer: JSC/R SHULER
CASE Category: 22 – COMPUTER SCIENCE

NAG 9 807 TEXAS A&M UNIVERSITY **8878**
COMBINING THE PHOTOGRAPHY/LANDSCAPE ECOLOGY TO PRODUCE A PREDICTIVE MODEL
08/02/1995 – 09/01/1998 FY97: $0 Total: $64,314
Prin. Invest.: J GIARDINO
Tech. Officer: JSC/K LULLA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 9 821 TEXAS A&M UNIVERSITY **8879**
NONINVASIVE NEAR INFRARED SENSOR FOR CONTINUAL CEL L GLUCOSE MEASUREMENT
08/11/1995 – 09/17/1998 FY97: $85,000 Total: $281,250
Prin. Invest.: G COTE
Tech. Officer: JSC/N PELLIS
CASE Category: 49 – ENGINEERING, OTHER

NAG 9 831 TEXAS A&M UNIVERSITY **8880**
SINGLE EVENT UPSET EVALUATION ENVIR.
07/25/1995 – 11/30/1996 FY97: –$316 Total: $44,050
Prin. Invest.: G CHOI
Tech. Officer: JSC/P O'NEILL
CASE Category: 13 – PHYSICS

NAG 9 882 TEXAS A&M UNIVERSITY **8881**
PERFORMANCE ENHANCEMENTS OF HEAT TRANSFER DEVICES
08/02/1996 – 08/01/1998 FY97: $0 Total: $50,000
Prin. Invest.: J S YAGOOBI
Tech. Officer: JSC/K HURLBERT
CASE Category: 45 – ELECTRICAL ENGR

NAG 9 886 TEXAS A&M UNIVERSITY **8882**
SINGLE HIGH LINEAR TRANSFER PARTICLES TO STUDY BIOLOGICAL EFFECTS OF RADIATION IN SPACE
07/12/1996 – 06/30/1998 FY97: $0 Total: $63,000
Prin. Invest.: D BRABY
Tech. Officer: JSC/T YANG
CASE Category: 56 – MEDICL

NAG 9 889 TEXAS A&M UNIVERSITY **8883**
HAND FORCE EXERTION CAPABILITY MODELING FOR EXTRAVEHICULAR ACTIVITIES
07/12/1996 – 12/31/1997 FY97: $0 Total: $59,500
Prin. Invest.: D KERK
Tech. Officer: JSC/J MAIDA
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 9 893 TEXAS A&M UNIVERSITY **8884**
AERCAM ENHANCEMENTS (EVA ROBOT CAMERA CONTROL)
07/19/1996 – 09/01/1997 FY97: $0 Total: $68,000
Prin. Invest.: D A VOLZ, D C TINKLE
Tech. Officer: JSC/T PENDLETON
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 9 894 TEXAS A&M UNIVERSITY **8885**
STABILITY OF 2–PHASE FLOW MANIFOLDED SYSTEMS UNDER IG AND 0G CONDITIONS
07/19/1996 – 07/31/1998 FY97: $0 Total: $75,000
Prin. Invest.: D LANGHANS
Tech. Officer: JSC/K HENDERSON
CASE Category: 55 – AGRICULTURE

NAG 9 917 TEXAS A&M UNIVERSITY **8886**
X–35 DROP MODEL SIMULATION
11/05/1996 – 05/20/1997 FY97: $5,933 Total: $5,933
Prin. Invest.: D T WARD
Tech. Officer: JSC/J MUCATORE
CASE Category: 49 – ENGINEERING, OTHER

NAG 9 931 TEXAS A&M UNIVERSITY **8887**
NASA ASEE SUMMER FALCULTY FELLOWSHIP PROGRAM
03/17/1997 – 02/28/1999 FY97: $488,299 Total: $488,299
Prin. Invest.: W A HYMAN, J PRITCHARD
Tech. Officer: JSC/D G SICKOREZ
CASE Category: 49 – ENGINEERING, OTHER

NAGW 1194 TEXAS A&M UNIVERSITY **8888**
CENTER FOR THE COMMERCIAL DEVE. OF SPACE POWER
09/30/1987 – 10/31/1998 FY97: $0 Total: $10,643,300
Prin. Invest.: F R BEST, D R BOYLE
Tech. Officer: HQ/C LIVINGSTON, HQ/V CEVENINI
CASE Category: 45 – ELECTRICAL ENGR

NAGW 1979 TEXAS A&M UNIVERSITY **8889**
STUDIES OF GEOSTROPHIC TURBULENE USING GEOSAT DATA
05/22/1990 – 12/30/1997 FY97: $114,537 Total: $527,214
Prin. Invest.: R H STEWART
Tech. Officer: HQ/G S LAGERLOEF, HQ/W S WILSON
CASE Category: 33 – OCEANOGRAPHY

NAGW 3186 TEXAS A&M UNIVERSITY **8890**
NAGW–3186/TEXAS A&M UNIV/CONSTRUCTING A RECORD OF TROPICAL DEFORESTATION USING LANDSAT, AVHRR,
08/28/1992 – 01/31/1997 FY97: $0 Total: $118,234
Prin. Invest.: J GIARDINO, F HOSKINS
Tech. Officer: HQ/M R HALFERT, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3442 TEXAS A&M UNIVERSITY **8891**
OBSERVATIONAL AND MODEL STUDIES OF LARGE SCALE MIX ING PROCESSES IN THE STRATOSPHERE
03/17/1993 – 02/28/1997 FY97: $0 Total: $249,382
Prin. Invest.: K P BOWMAN
Tech. Officer: HQ/J A KAYE, HQ/R E MURPHY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3652 TEXAS A&M UNIVERSITY **8892**
THE REMOTE SENSING OF MINERAL AEROSOLS AND THEIR I MPACT ON PHYTOPLANKTON PRODUCTIVITY USING SEAWIFS
06/15/1993 – 08/31/1997 FY97: $0 Total: $103,954
Prin. Invest.: N W TINDALE
Tech. Officer: HQ/J A KAYE, HQ/R E MURPHY
CASE Category: 33 – OCEANOGRAPHY

NAGW 3963 TEXAS A&M UNIVERSITY **8893**
"MARS GEOLOGIC MAPPING: DAO AND NIGER VALLES"
04/22/1994 – 09/01/1997 FY97: $0 Total: $45,640
Prin. Invest.: K H PRICE
Tech. Officer: HQ/R WILLIAMS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 4171 TEXAS A&M UNIVERSITY **8894**
MUTUAL INTERACTION OF SOIL MOISTURE AND CLIMATE DY NAMICS
11/04/1994 – 12/31/1997 FY97: $0 Total: $67,327
Prin. Invest.: I RODRIGUEZ–ITURBE
Tech. Officer: HQ/M Y WEI, HQ/J S THEON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4189 TEXAS A&M UNIVERSITY **8895**
CHARACTERIZATION OF THE SPATIAL–TEMPORAL VARIABILI TY OF SOIL MOISTURE BY REMOTE SENSING
11/04/1994 – 09/30/1997 FY97: $0 Total: $186,975
Prin. Invest.: J B VALDES
Tech. Officer: HQ/M Y WEI, HQ/J S THEON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4766 TEXAS A&M UNIVERSITY **8896**
SPACE TIME ORGANIZATION
09/25/1995 – 08/30/1998 FY97: $69,645 Total: $135,972
Prin. Invest.: I RODRIGUEZ–ITURBE, D ENTEKHABI
Tech. Officer: HQ/M Y WEI, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4842 TEXAS A&M UNIVERSITY **8897**
SKELETAL MUSCLE ARTERIORLAR ADAPTIONS TO STIMULATE D MICROGRAVITY
11/02/1995 – 09/30/1997 FY97: $0 Total: $105,424
Prin. Invest.: M D DELP, PH.D
Tech. Officer: HQ/M SHEPANEK
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 5032 TEXAS A&M UNIVERSITY **8898**
WORLD OCEAN CIRCULATION EXPERIMENT: SUPPORT FOR T HE U.S. WOCE OFFICE
04/09/1996 – 09/30/1997 FY97: $0 Total: $150,000
Prin. Invest.: W D NOWLIN
Tech. Officer: HQ/B C DOUGLAS, HQ/N MAYNARD
CASE Category: 33 – OCEANOGRAPHY

NAS 5 32593 TEXAS A&M UNIVERSITY **8899**
STUDY ENTITLED MIMR SCIENCE TEAM MEMBERSHIP
12/15/1993 – 12/31/2000 FY97: $180,000 Total: $530,013
Prin. Invest.: T T WILHEIT
Tech. Officer: GSFC/P HWONG
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 9 18882 TEXAS A&M UNIVERSITY **8900**
WIND TUNNEL SUPPORT
04/16/1993 – 04/16/1996 FY97: $0 Total: $157,384
Prin. Invest.: O NICKS
Tech. Officer: JSC/R E MEYERSON
CASE Category: 41 – AERONAUTICAL ENGNR

NAS 9 97002 TEXAS A&M UNIVERSITY **8901**
TEXAS A & M LOW–SPEED WIND TUNNEL (LSWT) TESTING
04/02/1997 – 04/02/2000 FY97: $62,500 Total: $62,500
Prin. Invest.: J L MARTINEZ
Tech. Officer: JSC/S G LABBE, JSC/C J CERIMELE
CASE Category: 41 – AERONAUTICAL ENGNR

NASW 4679 TEXAS A&M UNIVERSITY **8902**
NASW–4679/TX ENG'G EXPERIMENT STAITON/NASA RTTC LOCATED IN THE MID–CONTINENT REGION OF THE U.S.
05/24/1995 – 12/31/1996 FY97: –$282,981 Total: $6,877,019
Prin. Invest.: G SERA
Tech. Officer: HQ/F E PEWARANDA
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 3 516 TEXAS A&M UNIVERSITY **8903**
THE CENTER FOR SPACE POWER
11/26/1996 – 11/03/2001 FY97: $1,050,000 Total: $1,050,000
Prin. Invest.: F R BEST
Tech. Officer: LERC/J E CALOGERAS, LERC/R L SOVIE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 4 111 TEXAS A&M UNIVERSITY **8904**
MULTIRESOLUTION & TIME–FREQUENCY CHARACTERIZATIONS OF NON-LINEAR DYNAMICS IN AEROELASTIC & AERO SYS
04/09/1997 – 09/30/1997 FY97: $40,000 Total: $40,000
Prin. Invest.: T W STRGANAC, A KURDILA
Tech. Officer: DFRC/M BRENNER
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 30243 TEXAS A&M UNIVERSITY **8905**
GLOBAL CHANGE FELLOWSHIP PROGRAM
09/13/1994 – 08/31/1996 FY97: –$251 Total: $21,749
Prin. Invest.: R H STEWART
Tech. Officer: HQ/R A SCHIFFER, HQ/G ASRAR
CASE Category: 33 – OCEANOGRAPHY

NGT 30287 TEXAS A&M UNIVERSITY **8906**
GLOBAL CHANGE FELLOWSHIP PROGRAM
10/06/1994 – 08/31/1996 FY97: $1 Total: $44,000
Prin. Invest.: J B VALDES
Tech. Officer: HQ/J S THEON, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 51185 TEXAS A&M UNIVERSITY **8907**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/30/1993 – 08/31/1996 FY97: –$35 Total: $65,965
Prin. Invest.: K P BOWMAN
Tech. Officer: GSFC/M BURRELL
CASE Category: 11 – ASTRONOMY

NGT 51229 TEXAS A&M UNIVERSITY **8908**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/08/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: L R HOSSNER
Tech. Officer: JSC/S GOLDSTEIN
CASE Category: 55 – AGRICULTURE

NGT 51232 TEXAS A&M UNIVERSITY **8909**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/08/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: J S YAGOOBI
Tech. Officer: JSC/S GOLDSTEIN
CASE Category: 46 – MECHANICAL ENGR

NGT 51244 TEXAS A&M UNIVERSITY **8910**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/29/1994 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: M J ANDREWS
Tech. Officer: LERC/F MONTEGANI
CASE Category: 46 – MECHANICAL ENGR

NGT 51337 TEXAS A&M UNIVERSITY **8911**
GRADUATE STUDENT RESEARCHER PROGRAM
08/22/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: M B HALL
Tech. Officer: ARC/M MOORE
CASE Category: 12 – CHEMISTRY

NGT 70248 TEXAS A&M UNIVERSITY **8912**
NGT–70248/TEXAS A&M UNIV/GRADUATE STUDENT RESEARCH ERS PROGRAM, UNDERREPRESENTED MINORITY FOCUS
05/29/1992 – 12/31/1996 FY97: $0 Total: $88,000
Prin. Invest.: F R BEST
Tech. Officer: JSC/S GOLDSTEIN
CASE Category: 49 – ENGINEERING, OTHER

NGT 70387 TEXAS A&M UNIVERSITY **8913**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
08/26/1994 – 06/30/1997 FY97: $0 Total: $64,400
Prin. Invest.: M DREW
Tech. Officer: HQ/D RUSSELL
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 90128 TEXAS A&M UNIVERSITY **8914**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
09/26/1992 – 08/14/1996 FY97: –$13,233 Total: $30,767
Prin. Invest.: W D TURNER
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90190 TEXAS A&M UNIVERSITY **8915**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/27/1993 – 08/14/1996 FY97: –$10,142 Total: $25,858
Prin. Invest.: W D TURNER
Tech. Officer: HQ/D RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 2 52213 TEXAS A&M UNIVERSITY **8916**
A VISUAL OPTIMIZATION ENVIRONMENT FOR AIRCRAFT CON CEPTUAL DESIGN
07/18/1996 – 08/31/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: D L DARMOFAL
Tech. Officer: ARC/H MIURA, ARC/T L GALLOWAY
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 2 52226 TEXAS A&M UNIVERSITY **8917**
IMPROVING MULTIGRID PERFORMANCE FOR NAVIER–STOKES CALCULATIONS
08/05/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D L DARMOFAL
Tech. Officer: ARC/T H PULLIAM
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 3 52321 TEXAS A&M UNIVERSITY **8918**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/06/1996 – 08/31/1997 FY97: $0 Total: $5,000
Prin. Invest.: J A CATON
Tech. Officer: LERC/D MONTEGANI
CASE Category: 46 – MECHANICAL ENGR

NGT 5 7 TEXAS A&M UNIVERSITY **8919**
WAVELET–BASED FUSION AND DENOISING OF REMOTELY SENSED MULTISPECTRAL DATA
06/26/1995 – 06/30/1996 FY97: $0 Total: $22,000
Prin. Invest.: J C LIU
Tech. Officer: GSFC/G A SOFFEN, GSFC/J TILTON
CASE Category: 22 – COMPUTER SCIENCE

NGT 5 30033 TEXAS A&M UNIVERSITY **8920**
LIGHTNING AND ITS RELATIONSHIP TO 85 GHZ ICE SCATT IN THE GLOBAL TROPICS
10/17/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: E ZIPSER
Tech. Officer: GSFC/G ASRAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 5 70002 TEXAS A&M UNIVERSITY **8921**
GRADUATE STUDENT RESEARCH PROGRAM – STUDENT: ROBER
08/26/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: M C DREW
Tech. Officer: GSFC/M STOUTSENBERGER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90005 TEXAS A&M UNIVERSITY **8922**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (USAR)
12/30/1996 – 08/14/1997 FY97: $48,000 Total: $48,000
Prin. Invest.: W TURNER
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 8 52815 TEXAS A&M UNIVERSITY **8923**
GRAD STUDENT RESEARCHERS PROGRAM
07/25/1996 – 06/30/1999 FY97: $22,000 Total: $44,000
Prin. Invest.: J J MOORE
Tech. Officer: MSFC/P VALLELY
CASE Category: 46 – MECHANICAL ENGR

NGT 9 30 TEXAS A&M UNIVERSITY **8924**
MRI SKELETAL MEASURING
09/24/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: W HYMAN, L LAWRENCE
Tech. Officer: JSC/D SICKOREZ
CASE Category: 56 – MEDICL

NGT44 1800 TEXAS A&M UNIVERSITY **8925**
NASA ASEE SUMMER FACULTY FELLOWSHIP PROGRAM
01/01/1980 – 09/30/1997 FY97: $0 Total: $3,051,372
Prin. Invest.: W A HYMAN
Tech. Officer: HQ/A S MCGEE, HQ/E T SCHWARTZ
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 4699 TEXAS A&M UNIVERSITY SYSTEM **8926**
GLOBAL DISTRIBUTION OF LIGHTNING FROM THE DTD AND DISTRIBUTION OF MCSS FROM THE SSMI/
06/06/1997 – 05/31/1998 FY97: $83,113 Total: $83,113
Prin. Invest.: E ZIPSER
Tech. Officer: GSFC/J C DODGE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 1297 TEXAS A&M UNIVERSITY–KINGSVILLE **8927**
PRESENTING THE SHUTTLE MAIN ENGINE
05/16/1996 – 05/31/1998 FY97: $29,291 Total: $57,902
Prin. Invest.: B SCHREVR
Tech. Officer: MSFC/C NOLA
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 9 682 TEXAS A&M UNIVERSITY–KINGSVILLE **8928**
MINORITY EDUCATION PROGRAM K–12 OUTREACH EFFORTS (TX ENGR EXP. STATION – PASS THROUGH OBS)
04/02/1993 – 08/19/1998 FY97: $90,000 Total: $392,899
Prin. Invest.: J L KIMBALL
Tech. Officer: JSC/L M ARMENDARIZ
CASE Category: 79 – SOCIAL SCIENCE, OTHER

NAG 8 1356 TEXAS CHRISTIAN UNIVERSITY **8929**
EXPERIMENTAL ASSESSMENT OF MULTICOMPONENT EFFECTS IN DIFFUSION–DOMINATED TRANSPORT PROTEIN CRYSTAL
05/23/1997 – 11/30/1997 FY97: $42,000 Total: $42,000
Prin. Invest.: J G ALBRIGHT
Tech. Officer: MSFC/C L TALLEY, MSFC/D A NOEVER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 9 423 TEXAS SOUTHERN UNIVERSITY **8930**
EXAMINATION OF IONIC SPECIES IN SOLUTION OF SIMULATED LUNAR REGOLITH AND SELECTED SOLVENTS
04/12/1990 – 10/01/1995 FY97: $0 Total: $489,550
Prin. Invest.: R WILSON
Tech. Officer: JSC/D HENNINGER
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 9 712 TEXAS SOUTHERN UNIVERSITY **8931**
PHYROSLAXINS IN PLANT DISEASE DEVELOPMENT IN HYDRO PHONICS
09/22/1993 – 10/01/1997 FY97: $0 Total: $501,650
Prin. Invest.: O A JEJELOWO
Tech. Officer: JSC/D BARTA
CASE Category: 55 – AGRICULTURE

NAG 9 765 TEXAS SOUTHERN UNIVERSITY **8932**
SELECTED COMPLEX IONS & LIGANDS/SIMULATED RIGOLITH & HYDRO-PONIC SYSTEMS
09/19/1994 – 06/14/1997 FY97: $0 Total: $250,000
Prin. Invest.: R F WILSON, NONE
Tech. Officer: JSC/D HENNINGER
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAG 9 774 TEXAS SOUTHERN UNIVERSITY **8933**
THE LAW OF PROPERTY IN SPACE
03/17/1995 – 08/31/1997 FY97: $0 Total: $150,000
Prin. Invest.: O KING
Tech. Officer: JSC/M DIGOU
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 9 781 TEXAS SOUTHERN UNIVERSITY **8934**
HIGH ENERGY CELLS AND BATTERIES
04/17/1995 – 05/30/1998 FY97: $200,000 Total: $600,002
Prin. Invest.: A R CHOWDHURY, M C GOURDINE
Tech. Officer: JSC/B J BRAGG
CASE Category: 45 – ELECTRICAL ENGR

NAG 9 862 TEXAS SOUTHERN UNIVERSITY **8935**
MICROGRAVITY & SICKLE CELL ANEMIA
02/29/1996 – 02/28/1998 FY97: $175,000 Total: $350,000
Prin. Invest.: D FADULA
Tech. Officer: JSC/J D ATKINSON
CASE Category: 56 – MEDICL

NAG 9 869 TEXAS SOUTHERN UNIVERSITY **8936**
FEASIBILITY STUDY FOR ENVIRONMENTAL SCIENCE INST
05/07/1996 – 05/31/1997 FY97: $0 Total: $75,000
Prin. Invest.: O H CRINER
Tech. Officer: JSC/K KRISHEN
CASE Category: 22 – COMPUTER SCIENCE

NAG 9 875 TEXAS SOUTHERN UNIVERSITY **8937**
SOLAR PHOTOVOLTAIC REFRIGERATION EXPERIMENTATION
07/03/1996 – 11/30/1997 FY97: $0 Total: $25,000
Prin. Invest.: J HILL
Tech. Officer: JSC/M K EWERT
CASE Category: 49 – ENGINEERING, OTHER

NAG 9 879 TEXAS SOUTHERN UNIVERSITY **8938**
ENHANCE CAPABILITY FOR ENVIRONMENTAL SENSING RESEARCH AT TSU
11/19/1996 – 09/30/1997 FY97: $150,000 Total: $150,000
Prin. Invest.: J JONES
Tech. Officer: JSC/J D ATKINSON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 9 974 TEXAS SOUTHERN UNIVERSITY **8939**
SUPPORT NASA ENVIRONMENTAL INSTITUTE
09/25/1997 – 09/30/1998 FY97: $150,000 Total: $150,000
Prin. Invest.: J JONES
Tech. Officer: JSC/L ARMENDARIZ
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 9 48 TEXAS SOUTHERN UNIVERSITY **8940**
SOLABLE SILICON
10/02/1996 – 10/01/1997 FY97: $50,000 Total: $50,000
Prin. Invest.: O A JEJELOWO
Tech. Officer: JSC/D BARTA
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 9 876 TEXAS SOUTHMOST COLLEGE **8941**
K-12 SCIENCE OUTREACH PROGRAMS/COLLEGE STUDENT K-12 BRIDG-ING COMPONENT
09/18/1996 – 01/31/1997 FY97: $0 Total: $11,620
Prin. Invest.: L LOF
Tech. Officer: JSC/L ARMENDARIZ
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 9 933 TEXAS SOUTHMOST COLLEGE **8942**
EDUCATION GRANT
07/23/1997 – 08/31/1998 FY97: $135,102 Total: $135,102
Prin. Invest.: J V GARCIA
Tech. Officer: JSC/L M ARMENDARIZ
CASE Category: 21 – MATHEMATICS

NAG 9 965 TEXAS SOUTHMOST COLLEGE **8943**
K-12 SCIENCE OUTREACH
09/18/1997 – 08/01/1998 FY97: $25,000 Total: $25,000
Prin. Invest.: L V LOF
Tech. Officer: JSC/L ARMENDARIZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 3060 TEXAS SOUTHMOST COLLEGE **8944**
SOUTH TEXAS SCIENCE OUTREACH PROGRAM
05/04/1992 – 05/14/1997 FY97: $0 Total: $605,224
Prin. Invest.: L V LOF, P GOMEZ
Tech. Officer: JSC/L ARMENDARIZ, HQ/B L WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 2 899 TEXAS TECH UNIVERSITY **8945**
STUDENT SUPPORT FOR RESEARCH IN HIERARCHICAL CONTR OL & TRA-JECTORY PLANNING
01/01/1994 – 12/31/1997 FY97: $35,000 Total: $139,998
Prin. Invest.: C F MARTIN
Tech. Officer: ARC/G MEYER
CASE Category: 49 – ENGINEERING, OTHER

NAG 2 1077 TEXAS TECH UNIVERSITY **8946**
MULTIPLEXED HOLOGRAPHIC DATA STORAGE IN BACTERIORH ODOPSIN
08/19/1996 – 10/31/1997 FY97: $10,000 Total: $109,529
Prin. Invest.: D J MEHRL
Tech. Officer: ARC/C K GARY, ARC/M B REID
CASE Category: 22 – COMPUTER SCIENCE

NAG 3 1172 TEXAS TECH UNIVERSITY **8947**
ARCJET ELECTRODE DEGRADATION RESEARCH
05/10/1990 – 12/14/1996 FY97: $0 Total: $973,080
Prin. Invest.: E A O'HAIR, M KRISTIANSEN, L L HATFIELD
Tech. Officer: LERC/F M CURRAN, LERC/T W HAAG
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 3 2005 TEXAS TECH UNIVERSITY **8948**
ARCJET ELECTRODE DEGRDATION RESEARCH
01/24/1997 – 01/16/1998 FY97: $226,167 Total: $226,167
Prin. Invest.: E A O'HAIR, M KRISTIANSEN, J C DICKENS
Tech. Officer: LERC/L R PINERO
CASE Category: 45 – ELECTRICAL ENGR

NAG 9 844 TEXAS TECH UNIVERSITY **8949**
HI FIDELITY IMAGE DATA SYSTEMS
08/24/1995 – 09/21/1996 FY97: –$62 Total: $57,408
Prin. Invest.: S MITRA
Tech. Officer: JSC/T CLEGHORN
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 9 899 TEXAS TECH UNIVERSITY **8950**
PROGRESSIVE/FAST TRANSMISSION LARGE COLOR IMAGE
09/12/1996 – 01/15/1998 FY97: $0 Total: $56,000
Prin. Invest.: D MITRA
Tech. Officer: JSC/D HOLLAND
CASE Category: 49 – ENGINEERING, OTHER

NGT 5 50151 TEXAS TECH UNIVERSITY **8951**
RE–ENGINEERING COMPUTER NETWORKS: PLANNING AND IM OGY
09/11/1997 – 09/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: S B YADAV
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 1 1916 UNIV HOUSTON **8952**
AN ADVANCED MOMENTUM WHEEL FOR MINIATURE SATELLITE
04/18/1997 – 04/17/1998 FY97: $90,000 Total: $90,000
Prin. Invest.: W CHU
Tech. Officer: LARC/J JUANG, LARC/M R KOCH
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 2 1089 UNIV HOUSTON **8953**
AN EVALUATION OF COLLAGEN METABOLISM IN NON–HUMAN PRIMATES ASSOCIATED WITH THE BION SPACE PROGRAM...
10/17/1996 – 05/31/1998 FY97: $209,417 Total: $209,417
Prin. Invest.: A C VAILAS, D A MARTINEZ
Tech. Officer: ARC/C M WINGET, ARC/G A JAHNS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 3 1840 UNIV HOUSTON **8954**
TWO–PHASE GAS–LIQUID FLOWS IN MICROGRAVITY: EXPER IMENTAL AND THEORETICAL INVESTIGATION OF ANNULAR
05/02/1996 – 05/01/2000 FY97: $60,000 Total: $140,000
Prin. Invest.: V BALAKOTAIAH, S JAYAWARDENA
Tech. Officer: LERC/B S MOTIL
CASE Category: 46 – MECHANICAL ENGR

NAG 5 4004 UNIV HOUSTON **8955**
RNA EVOLUTION
03/06/1997 – 11/30/1997 FY97: $69,000 Total: $69,000
Prin. Invest.: D E FOX
Tech. Officer: GSFC/M A MEYER*Tech. Officer:* NONE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 4765 UNIV HOUSTON **8956**
LL CHODRITES
06/06/1997 – 05/31/1998 FY97: $25,674 Total: $25,674
Prin. Invest.: D M REID
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 5126 UNIV HOUSTON **8957**
GROUND AND BALLOON–BORNE OBSERVATIONS OF SPRITES AND JETS
07/02/1997 – 01/31/1998 FY97: $135,104 Total: $135,104
Prin. Invest.: E BERING
Tech. Officer: GSFC/E BERING
CASE Category: 13 – PHYSICS

NAG 8 1363 UNIV HOUSTON **8958**
"EPITAXIAL GROWTH OF PROTEIN CRYSTALS ON SELF– ASSEMBLED MONOLAYERS"
06/02/1997 – 11/30/1997 FY97: $74,000 Total: $74,000
Prin. Invest.: J M FRIEDMAN
Tech. Officer: MSFC/C R TALLEY, MSFC/B G PENN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 9 657 UNIV HOUSTON **8959**
SCIENTIFIC AND TECHNICAL INSTRUCTIONAL SUPPORT FOC USING ON UNDERREPRESENTED MINORITIES
12/04/1992 – 09/30/1995 FY97: –$436 Total: $141,364
Prin. Invest.: R A ALO
Tech. Officer: JSC/C M HOSKINS
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 9 658 UNIV HOUSTON **8960**
HOUSTON BRIDGE PROGRAM
12/14/1992 – 08/31/1996 FY97: $0 Total: $166,889
Prin. Invest.: W HOUSTON
Tech. Officer: JSC/J D ATKINSON
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 9 713 UNIV HOUSTON **8961**
DEVELOPMENT ADVANCED TRAINING TECHNOLOGIES
09/30/1993 – 02/28/1998 FY97: $0 Total: $454,165
Prin. Invest.: R B LOFTIN
Tech. Officer: JSC/C CULBERT
CASE Category: 22 – COMPUTER SCIENCE

NAG 9 741 UNIV HOUSTON **8962**
OPERATION HIGH TEMPERATURE SUPERCONDUCTING DEVICES IN SPACE WITHOUT CRYOGENS
05/31/1994 – 05/31/1997 FY97: $0 Total: $60,000
Prin. Invest.: P C CHU
Tech. Officer: JSC/K KRISHEN
CASE Category: 13 – PHYSICS

NAG 9 803 UNIV HOUSTON **8963**
SPACE RADIATION MONTE CARLO COMPUTER SIMULATION
07/26/1995 – 12/31/1997 FY97: $0 Total: $67,054
Prin. Invest.: L PINSKY
Tech. Officer: JSC/G BADHWAR
CASE Category: 13 – PHYSICS

NAG 9 806 UNIV HOUSTON **8964**
SOLAR CELLS FOR LUNAR APPL
07/20/1995 – 07/20/1997 FY97: $0 Total: $57,600
Prin. Invest.: A IGNATIEV
Tech. Officer: JSC/D MCKAY
CASE Category: 13 – PHYSICS

NAG 9 853 UNIV HOUSTON **8965**
SOLID ABSORBENT HEAT PUMP SYSTEM
11/14/1995 – 12/31/1997 FY97: $26,418 Total: $59,418
Prin. Invest.: N SHAMSUNDAR
Tech. Officer: JSC/J D CORNWELL
CASE Category: 46 – MECHANICAL ENGR

NAG 9 854 UNIV HOUSTON **8966**
HEAT & MOMENTUM TRANSFER STUDIES/HIGH REYNOLDS NUM BER WAVY FILMS
10/12/1995 – 08/01/1996 FY97: $0 Total: $42,907
Prin. Invest.: V BALAKOTAIAH
Tech. Officer: JSC/C SCOTT
CASE Category: 49 – ENGINEERING, OTHER

NAG 9 867 UNIV HOUSTON **8967**
NASA–ASEE SUMMER FACULTY FELLOWSHIPS
05/09/1996 – 04/30/1998 FY97: $0 Total: $473,000
Prin. Invest.: R B BANNEROT
Tech. Officer: JSC/E PRITCHARDS
CASE Category: 46 – MECHANICAL ENGR

NAG 9 887 UNIV HOUSTON **8968**
NONLINEAR DYNAMICAL ANALYSIS OF PRE AND POST FLIGH T ELECTRO-MYOGRAM ANLYSIS
07/12/1996 – 01/31/1998 FY97: $0 Total: $60,000
Prin. Invest.: D H JANSEN
Tech. Officer: JSC/L WEBSTER
CASE Category: 56 – MEDICL

NAG 9 888 UNIV HOUSTON **8969**
SUPPORT SYSTEM FOR TRAINING OF CREW MEDICAL OFFICE RS
07/25/1996 – 01/31/1998 FY97: $0 Total: $58,000
Prin. Invest.: D JEN–GWO CHEN
Tech. Officer: JSC/L WEBSTER
CASE Category: 22 – COMPUTER SCIENCE

NAG 9 892 UNIV HOUSTON **8970**
DETECTION OF HIGH VOLTAGE SPACECRAFT CHARGING AND DEFECTS IN POWER TRANSMISSION SYSTEMS
07/19/1996 – 01/31/1998 FY97: $0 Total: $59,500
Prin. Invest.: D E BORING
Tech. Officer: JSC/T JEFFCOAT
CASE Category: 45 – ELECTRICAL ENGR

NAG 9 896 UNIV HOUSTON **8971**
SIMULATION ON COMPRESSABLE HIGH SPEED FLOW
08/09/1996 – 07/31/1997 FY97: $0 Total: $35,000
Prin. Invest.: D E FITZGIBBON, R SANDERS
Tech. Officer: JSC/C P LI
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 9 900 UNIV HOUSTON **8972**
SUPERCONDUCTING MAGNETS USED IN MAGNETIC B/T SYS
09/10/1996 – 09/30/1997 FY97: $0 Total: $60,000
Prin. Invest.: D WEINSTEIN
Tech. Officer: JSC/D ARNDT
CASE Category: 46 – MECHANICAL ENGR

NAG 9 902 UNIV HOUSTON **8973**
CLASSIFICATION INDEXING RETREIVAL OF VIDEO MEDIA
08/27/1996 – 05/31/1997 FY97: $0 Total: $70,500
Prin. Invest.: D G JOHNSON
Tech. Officer: JSC/C PITTMAN
CASE Category: 49 – ENGINEERING, OTHER

NAG 9 904 UNIV HOUSTON **8974**
CHARACTERIZATION OF EXHAUST PLUME OF VARIABLE IMPU LSE PLASMA ROCKET
09/23/1996 – 09/30/1997 FY97: $0 Total: $59,500
Prin. Invest.: D BERING
Tech. Officer: JSC/F CHANG–DIAZ
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 9 905 UNIV HOUSTON **8975**
USE OF HIGH–T SUPERCONDUCTING MAGNETIC SENSORS
10/31/1996 – 09/30/1997 FY97: $58,500 Total: $58,500
Prin. Invest.: J H MILLER, JR.
Tech. Officer: JSC/G ECORD
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 9 930 UNIV HOUSTON **8976**
VIRTUAL ENVIRONMENT TECHNOLOGY LAB INFRASTRUCTURE ADVANCE-MENT
04/01/1997 – 05/31/1998 FY97: $246,000 Total: $246,000
Prin. Invest.: R B LOFTIN
Tech. Officer: JSC/R J SAVELY
CASE Category: 22 – COMPUTER SCIENCE

NAGW 977 UNIV HOUSTON **8977**
ESTAB CENTER FOR COMM DEVEL OF SPACE
09/01/1986 – 09/30/1997 FY97: –$84,048 Total: $40,673,186
Prin. Invest.: C W CHU, J T NORRIS
Tech. Officer: HQ/W A ORAN, HQ/A VILLAMIL
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 2108 UNIV HOUSTON **8978**
IBOSOMAL RNA EVOLUTION AND MICROBIAL PHYLOGENY
06/07/1990 – 11/30/1996 FY97: $0 Total: $473,000
Prin. Invest.: G E FOX
Tech. Officer: HQ/J D RUMMEL
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 3623 UNIV HOUSTON **8979**
EUCRITES, HOWARDITES AND CV CHRONDRITES
05/28/1993 – 09/30/1997 FY97: $26,427 Total: $113,087
Prin. Invest.: A REID
Tech. Officer: HQ/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NCC 8 127 UNIV HOUSTON **8980**
FOR RESEARCH "CONTINUATION OF SUPPORT FOR THE COMMERCIAL SPACE CENTER, SPACE VACUUM EPITAXY CTR
01/21/1997 – 10/14/1997 FY97: $3,500,000 Total: $3,500,000
Prin. Invest.: J R WATKINS
Tech. Officer: MSFC/J R WATKINS
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 51022 UNIV HOUSTON **8981**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/14/1993 – 07/31/1998 FY97: $0 Total: $88,000
Prin. Invest.: F HUSSAIN
Tech. Officer: ARC/M MOORE
CASE Category: 46 – MECHANICAL ENGR

NGT 70250 UNIV HOUSTON **8982**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/08/1992 – 06/30/1997 FY97: $0 Total: $88,000
Prin. Invest.: T GOLDING
Tech. Officer: HQ/D K RUSSELL
CASE Category: 13 – PHYSICS

NGT 90176 UNIV HOUSTON **8983**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/27/1993 – 08/14/1997 FY97: $0 Total: $36,000
Prin. Invest.: G F PASKUSZ
Tech. Officer: HQ/D RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90245 UNIV HOUSTON **8984**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
05/16/1994 – 08/14/1997 FY97: $0 Total: $48,000
Prin. Invest.: G F PASKUSZ
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 2 52235 UNIV HOUSTON **8985**
DYNAMICS & CONTROL OF TURBULENT BOUNDARY LAYERS: FURTHER STUDIES
09/15/1997 – 06/30/1998 FY97: $2,084 Total: $2,084
Prin. Invest.: W SCHOPPA, F HASSAIN
Tech. Officer: ARC/K R SHARIFF
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 3 52314 UNIV HOUSTON **8986**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/06/1996 – 08/14/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: V BALAKOTAIH
Tech. Officer: LERC/D MONTEGANI
CASE Category: 43 – CHEMICAL ENGR

NGT 5 90044 UNIV HOUSTON **8987**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
02/03/1997 – 08/14/1998 FY97: $22,200 Total: $22,200
Prin. Invest.: G F PASKUSZ
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 46 – MECHANICAL ENGR

NGT 9 27 UNIV HOUSTON **8988**
INVESTIGATION OF HALLOW CATHODE HI ENERGY ION PHENOM ...
08/20/1997 – 07/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: E BERING
Tech. Officer: JSC/D G SICKOREZ
CASE Category: 13 – PHYSICS

NGT44 5803 UNIV HOUSTON **8989**
TRAINING GRANT FOR CONDUCTING SUMMER FACULTY FELLOWSHIP PROGRAM
01/01/1984 – 03/31/1997 FY97: $0 Total: $2,370,913
Prin. Invest.: R B BANNEROT
Tech. Officer: HQ/A S MCGEE, HQ/E T SCHWARTZ
CASE Category: 49 – ENGINEERING, OTHER

NAG 2 780 UNIV OF TEXAS MEDICAL BRANCH – GALVESTON **8990**
BASIC GRAVITATIONAL REFLEXES IN THE LARVAL FROG
04/20/1992 – 08/31/1996 FY97: –$1,373 Total: $175,027
Prin. Invest.: S L COCHRAN
Tech. Officer: ARC/M L CORCORAN, ARC/C E WADE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 6009 UNIV OF TEXAS MEDICAL BRANCH – GALVESTON **8991**
"FUNCTIONAL CORRELATES OF GENETIC EXPRESSION INDUC
08/28/1997 – 04/30/1998 FY97: $123,281 Total: $123,281
Prin. Invest.: A PERACHIO
Tech. Officer: HQ/T SCOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 9 859 UNIV OF TEXAS MEDICAL BRANCH – GALVESTON **8992**
SPACE MEDICINE FELLOWSHIP PROPOSAL
06/10/1996 – 05/20/1998 FY97: $10,000 Total: $32,000
Prin. Invest.: W A WASSON
Tech. Officer: JSC/R BILLICA
CASE Category: 56 – MEDICL

NAG 9 901 UNIV OF TEXAS MEDICAL BRANCH – GALVESTON **8993**
INFLUENCE OF SIMULATED MICROVITY ON YEAST CYTOSKEL ETON & VIR-ULENCE FACTORS
08/29/1996 – 01/31/1998 FY97: $0 Total: $29,800
Prin. Invest.: M R MCGINNIS
Tech. Officer: JSC/D L PIERSON
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAGW 4032 UNIV OF TEXAS MEDICAL BRANCH – GALVESTON **8994**
COUNTERMEASURES FOR MICROGRAVITY – INDUCED MUSCLE ATROPHY
06/06/1994 – 04/14/1998 FY97: $0 Total: $570,000
Prin. Invest.: C A STUART, NONE
Tech. Officer: HQ/F M SULZMAN
CASE Category: 56 – MEDICL

NAGW 5064 UNIV OF TEXAS MEDICAL BRANCH – GALVESTON **8995**
FUNCTIONAL CORRELATES OF GENETIC EXPRESSION INDUCE D BY HYPERGRAVITY
05/21/1996 – 08/31/1997 FY97: $0 Total: $123,082
Prin. Invest.: A A PERACHIO
Tech. Officer: HQ/V THORNE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAS 9 97147 UNIV OF TEXAS MEDICAL BRANCH – GALVESTON **8996**
PROTEIN TURNOVER DURING SPACE FLIGHT
02/24/1997 – 02/10/2000 FY97: $75,000 Total: $75,000
Prin. Invest.: A FERRANDO
Tech. Officer: JSC/A LEE
CASE Category: 56 – MEDICL

NGT 51666 UNIV OF TEXAS MEDICAL BRANCH – GALVESTON **8997**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/17/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: A BARRETT
Tech. Officer: HQ/G LE SANE
CASE Category: 56 – MEDICL

NGT 2 52216 UNIV OF TEXAS MEDICAL BRANCH – GALVESTON **8998**
IPSILATERAL & CONTRALATERAL EFFERENT CONTROL OF VE STIBULAR PRIMARY AFFERENT RESPONSE DYNAMICS
08/05/1996 – 06/30/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: A A PERACHIO, NONE
Tech. Officer: ARC/N G DAUNTON, ARC/M L CORCORAN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 5 50071 UNIV OF TEXAS MEDICAL BRANCH – GALVESTON **8999**
EFFECTS OF MICROGRAVITY ON CELL MEDIATED IMMUNITY TENT VIRAL INFECTIONS
09/02/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D BARRETT
Tech. Officer: GSFC/L CHAMBERS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 2 730 UNIV OF TEXAS–HLTH SCI CTR–SAN ANTONIO **9000**
EARLY DEVELOPMENT OF A GRAVITY-SENSING ORGAN IN M ICROGRAV-ITY
08/20/1991 – 01/31/1997 FY97: $0 Total: $619,236
Prin. Invest.: M L WIDERHOLD
Tech. Officer: ARC/C M WINGET, ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 952 UNIV OF TEXAS–HLTH SCI CTR–SAN ANTONIO **9001**
DEVELOPMENT OF BESTIBULAR ORGANS IN MICROGRAVITY
12/16/1994 – 11/30/1997 FY97: $165,543 Total: $380,953
Prin. Invest.: M L WIEDERHOLD
Tech. Officer: ARC/W E HINDS, ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 9 551 UNIV OF TEXAS–PAN AMERICAN **9002**
GRAPHIC NETWORK DIAGRAM FOR LARGE INFORMATION SRVC
09/16/1991 – 09/14/1996 FY97: –$2,092 Total: $262,961
Prin. Invest.: R H FOWLER
Tech. Officer: JSC/J D ATKINSON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 9 553 UNIV OF TEXAS–PAN AMERICAN **9003**
DIFFERENTIAL EQUATIONS WITH PIECEWISE CONTINUOUS ARGUMENT AND THEIR APPLICATION
09/16/1991 – 08/31/1996 FY97: –$19,240 Total: $272,763
Prin. Invest.: J WIENER
Tech. Officer: JSC/J D ATKINSON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 9 761 UNIV OF TEXAS–PAN AMERICAN **9004**
P300 & N400 AS CONTICAL BRAIN INDICATORS OF PERFOR MANCE DETERIORATION
10/11/1994 – 10/01/1995 FY97: –$4,806 Total: $74,168
Prin. Invest.: V I ALVARADO
Tech. Officer: JSC/F MOUNT
CASE Category: 69 – PSYCHOLOGY, OTHER

NAG 9 767 UNIV OF TEXAS–PAN AMERICAN **9005**
CONCATENATED CODING USING TRELLIS CODED MODULATION
09/27/1994 – 11/30/1995 FY97: –$1,089 Total: $13,911
Prin. Invest.: S E DAVIDSON
Tech. Officer: JSC/N G ROBERTSON
CASE Category: 22 – COMPUTER SCIENCE

NAG 9 857 UNIV OF TEXAS–PAN AMERICAN **9006**
DEVELOPMENT OF MINORITY INSTITUTION RESEARCH
12/11/1995 – 09/30/1997 FY97: $0 Total: $418,600
Prin. Invest.: E LEMASTER, R H FOWLER
Tech. Officer: JSC/L M ARMEDARIZ
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 90043 UNIV OF TEXAS–PAN AMERICAN **9007**
UNDERGRADUATE RESEARCHERS PROGRAM
08/22/1991 – 08/31/1996 FY97: $0 Total: $196,942
Prin. Invest.: W SHOCKLEY
Tech. Officer: HQ/B WHITE
CASE Category: 49 – ENGINEERING, OTHER

NGT 90101 UNIV OF TEXAS–PAN AMERICAN **9008**
NGT–90101/UNIV TEXAS PAN AMERICAN/UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
09/12/1992 – 08/14/1997 FY97: $0 Total: $58,000
Prin. Invest.: W SHOCKLEY
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90102 UNIV OF TEXAS–PAN AMERICAN **9009**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
09/12/1992 – 08/14/1996 FY97: $0 Total: $48,000
Prin. Invest.: W SHOCKLEY
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90162 UNIV OF TEXAS–PAN AMERICAN **9010**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/26/1993 – 08/14/1997 FY97: $0 Total: $36,000
Prin. Invest.: W C SHOCKLEY
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90163 UNIV OF TEXAS–PAN AMERICAN **9011**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/26/1993 – 08/14/1996 FY97: $0 Total: $36,000
Prin. Invest.: W C SHOCKLEY
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90032 UNIV OF TEXAS–PAN AMERICAN **9012**
USAR
02/14/1997 – 08/31/1997 FY97: $161,720 Total: $161,720
Prin. Invest.: W C SHOCKLEY
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 2 962 UNIV OF TEXAS, HEALTH SCI CTR–DALLAS **9013**
SPACE FLIGHT, STRESS & PLASTICITY
02/07/1995 – 11/30/1997 FY97: $83,802 Total: $256,424
Prin. Invest.: S T BRADY
Tech. Officer: ARC/W E HINDS, ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 4846 UNIV OF TEXAS, HEALTH SCI CTR–DALLAS **9014**
THE ROLE OF CARDIAC MECHANICS IN BLOOD PRESSURE RE TATIC STRESS
06/27/1997 – 06/30/1998 FY97: $139,000 Total: $139,000
Prin. Invest.: B LEVINE
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 3582 UNIV OF TEXAS, HEALTH SCI CTR–DALLAS **9015**
MECHANISMS OF PHYSIOLOGICAL ADAPTATION TO MICROGRA VITY
07/19/1993 – 05/31/1997 FY97: $1,126,000 Total: $4,304,000
Prin. Invest.: C G BLOMQVIST
Tech. Officer: HQ/R J WHITE
CASE Category: 56 – MEDICL

NAS 9 19429 UNIV OF TEXAS, HEALTH SCI CTR–DALLAS **9016**
INTEGRATION OF NEURAL CARDIOVASCULAR CONTROL IN SPACE
10/31/1995 – 10/31/1999 FY97: $40,000 Total: $240,000
Prin. Invest.: C G BLOMQVIST, NONE
Tech. Officer: JSC/A M LEE
CASE Category: 59 – LIFE SCIENCE, OTHER

NAS 9 19540 UNIV OF TEXAS, HEALTH SCI CTR–DALLAS **9017**
ADAPTIVE CHANGES IN CARDIOVASCULAR CONTROL AT MICROGRAVITY
02/13/1996 – 11/30/1998 FY97: $150,000 Total: $300,000
Prin. Invest.: C G BLOMQVIST
Tech. Officer: JSC/C M SMITH
CASE Category: 56 – MEDICL

NAG 8 1347 UNIV. OF TEXAS MD ANDERSON CANCER CENTER **9018**
USE OF NASA BIOREACTORS IN A NOVEL SCHEME FOR IMMUNIZATION AGAINST CANCER
06/18/1997 – 11/30/1997 FY97: $65,000 Total: $65,000
Prin. Invest.: C A SAVARY
Tech. Officer: MSFC/C R TALLEY, JSC/T J GOODWIN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 8 1348 UNIV. OF TEXAS MD ANDERSON CANCER CENTER **9019**
APPLICATION OF BIOREACTOR TECHNOLOGY ANALYSIS AND COUNTER MEASURE DEVELOPMENT OF MICROGRAVITY
06/18/1997 – 11/30/1997 FY97: $70,000 Total: $70,000
Prin. Invest.: E A GRIMM
Tech. Officer: MSFC/C R TALLEY, JSC/T J GOODWIN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 4710 UNIV. OF TEXAS–HLTH SCIENCE CTR–HOUSTON **9020**
GRAVITY AND THE REGULATION OF A CENTRAL GROWTH FAC
06/11/1997 – 06/30/1998 FY97: $131,640 Total: $131,640
Prin. Invest.: E DURBAN
Tech. Officer: GSFC/M AVERNER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 6176 UNIV. OF TEXAS–HLTH SCIENCE CTR–HOUSTON **9021**
3RD YEAR RENEWAL OF GRANT # NAGW 4479 FOR PHYSIOLO DECOMPRESSION–INDUCED VENOUS BUBBLES
07/28/1997 – 05/31/1998 FY97: $100,859 Total: $100,859
Prin. Invest.: B BUTLER
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 9 813 UNIV. OF TEXAS–HLTH SCIENCE CTR–HOUSTON **9022**
EFFECT OF MICROGRAVITY ON HUMAN SKIN EQUIVALENT
08/11/1995 – 09/18/1997 FY97: $0 Total: $239,000
Prin. Invest.: D DIMITRIJEVICH
Tech. Officer: JSC/N PELLIS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 9 834 UNIV. OF TEXAS–HLTH SCIENCE CTR–HOUSTON **9023**
USE OF ROTATING WALL VESSEL TO FACILITATE CULTURE OF NORWALK VIRUS
08/22/1995 – 09/01/1998 FY97: $178,000 Total: $522,000
Prin. Invest.: P JOHNSON
Tech. Officer: JSC/N PELLIS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 9 865 UNIV. OF TEXAS–HLTH SCIENCE CTR–HOUSTON **9024**
IN VIO GAS PHASE FORMATION/GROWTH
04/11/1996 – 12/30/1997 FY97: $0 Total: $60,000
Prin. Invest.: B BUTLER
Tech. Officer: JSC/D POWELL
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 9 866 UNIV. OF TEXAS–HLTH SCIENCE CTR–HOUSTON **9025**
TISSUE GAS MICRONUCLEI FUNCTION & THIER LIFETIMES
05/01/1996 – 10/20/1997 FY97: $0 Total: $49,288
Prin. Invest.: D FIFE
Tech. Officer: JSC/D POWELL
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 9 903 UNIV. OF TEXAS–HLTH SCIENCE CTR–HOUSTON **9026**
EPIDEMIOLOGY OF MICROORGANISMS IN SPACE FLIGHT ENV IRONMENT
08/29/1996 – 09/29/1998 FY97: $29,347 Total: $58,792
Prin. Invest.: G M WEINSTOCK
Tech. Officer: JSC/D L PIERSON
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 9 940 UNIV. OF TEXAS–HLTH SCIENCE CTR–HOUSTON **9027**
LIFETIMES OF VIVO GAS BUBBLE MICRONUCLEI
04/15/1997 – 04/15/1998 FY97: $130,000 Total: $130,000
Prin. Invest.: B BUTLER
Tech. Officer: JSC/M POWELL
CASE Category: 56 – MEDICL

NAG 9 952 UNIV. OF TEXAS–HLTH SCIENCE CTR–HOUSTON **9028**
EXERCISE DURING PREBREATHE: REDUCTION OF THE H–2–O PREBREATHE TIME
08/14/1997 – 08/14/1999 FY97: $54,000 Total: $54,000
Prin. Invest.: C FIFE
Tech. Officer: JSC/M R POWELL
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 3908 UNIV. OF TEXAS–HLTH SCIENCE CTR–HOUSTON **9029**
NAGW–3908/B UNIV. TX HEALTH SCI CTR HOUSTON "BIOCH EM. ADAPT. OF ANTI–GRAVITY MUSCLE..ATROPHY" 12 MO
03/31/1994 – 02/28/1998 FY97: $0 Total: $260,793
Prin. Invest.: F W BOOTH
Tech. Officer: HQ/F M SULZMAN
CASE Category: 51 – BIOLOGY(EXCLUDING ENVIR)

NAGW 4479 UNIV. OF TEXAS–HLTH SCIENCE CTR–HOUSTON **9030**
PHYSIOLOGICAL EFFECTS OF DECOMPRESSION–INDUCED VEN OUS BUBBLES
05/10/1995 – 09/30/1997 FY97: $0 Total: $190,481
Prin. Invest.: B D BUTLER
Tech. Officer: HQ/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4990 UNIV. OF TEXAS–HLTH SCIENCE CTR–HOUSTON **9031**
HOX GENES AND PATTERN FORMATION IN SPACE FLOWN MOU SE LIMB-BUDS
03/07/1996 – 09/30/1997 FY97: $0 Total: $69,999
Prin. Invest.: D J DUKE
Tech. Officer: HQ/F SULZMAN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAS 9 19439 UNIV. OF TEXAS–HLTH SCIENCE CTR–HOUSTON **9032**
MICROBIAL INTERACTION IN THE MIR SPACE STATION ENVIRONMENT
12/19/1995 – 12/13/1998 FY97: $120,000 Total: $295,474
Prin. Invest.: G WEINSTOCK
Tech. Officer: JSC/A PLAZA
CASE Category: 59 – LIFE SCIENCE, OTHER

NGT 51693 UNIV. OF TEXAS–HLTH SCIENCE CTR–HOUSTON **9033**
GSRP
07/12/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: D MAIGOLIN
Tech. Officer: HQ/G LESANE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 5 50084 UNIV. OF TEXAS–HLTH SCIENCE CTR–HOUSTON **9034**
IMMONOTOXICITY OF HYDRAZINE/GRADUATE STUDENT RESEA _JUDITH A. LATCH
09/17/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: A HOLIAN
Tech. Officer: GSFC/L P CHAMBERS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 9 25 UNIV. OF TEXAS–HLTH SCIENCE CTR–HOUSTON **9035**
ANTIGEN SPECIFIC IMMUNE DISFUNCTION ASSOCIATED W/ CHRONIC STRESS
06/25/1997 – 07/01/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: G MARSHALL, JR., S K AGARWAL
Tech. Officer: JSC/C F SAMS
CASE Category: 56 – MEDICL

NAG 9 731 UNIVERSITY OF HOUSTON – CLEAR LAKE **9036**
DEVELOPMENT/EVALUATION OF TEACHER TRAINING INSTITUTE/TNE-MATIC SCIENCE
05/05/1994 – 08/01/1996 FY97: –$509 Total: $99,486
Prin. Invest.: R M JONES
Tech. Officer: JSC/N G ROBERTSON
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 9 769 UNIVERSITY OF HOUSTON – CLEAR LAKE **9037**
FLOW DIAGNOSTICS OF ARCJET WIND TUNNEL BY SPECTRAL CHAR-ACTERIZATION OF RADIATION
10/24/1994 – 08/31/1996 FY97: –$1 Total: $31,991
Prin. Invest.: M A ROB
Tech. Officer: JSC/C SCOTT, JSC/J CARAM
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 9 802 UNIVERSITY OF HOUSTON – CLEAR LAKE **9038**
MODELING AND PREDEICTION OF DECOMPRESSION SICKNESS
08/02/1995 – 11/30/1997 FY97: $0 Total: $57,115
Prin. Invest.: R S CHHIKARA
Tech. Officer: JSC/M POWELL
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 9 16 UNIVERSITY OF HOUSTON – CLEAR LAKE **9039**
RESEARCH INSTITUTE FOR COMPUTING SYSTEMS
06/09/1986 – 06/30/1997 FY97: $0 Total: $42,186,648
Prin. Invest.: E T DICKERSON, A G HOUSTON
Tech. Officer: JSC/R B MACDONALD, JSC/J R GARMAN
CASE Category: 22 – COMPUTER SCIENCE

NCC 9 30 UNIVERSITY OF HOUSTON – CLEAR LAKE **9040**
RESEARCH FOR COMPUTING & INFORMATION SYSTEMS
08/08/1994 – 09/30/1998 FY97: $861,282 Total: $8,021,165
Prin. Invest.: S L GERHART
Tech. Officer: JSC/R T SAVELY
CASE Category: 22 – COMPUTER SCIENCE

NGT 90031 UNIVERSITY OF HOUSTON – CLEAR LAKE **9041**
NGT–90031/UNIV OF HOUSTON CLEAR LAKE/TRAINING PROG RAM FOR THE STUDIES IN ENERGY & SPACE TECHNOLOGY
05/10/1990 – 05/31/1996 FY97: –$31,089 Total: $557,338
Prin. Invest.: G SAWYER, W MILLER
Tech. Officer: HQ/M S MARGOLIS
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 1 1468 UNIVERSITY OF NORTH TEXAS **9042**
SCANNING TUNNELING MICROSCOPY STUDIES OF DIAMOND FILMS AND OPTOELECTRONIC MATERIALS – MY1/3
01/29/1993 – 11/30/1996 FY97: –$60 Total: $221,547
Prin. Invest.: J M PEREZ
Tech. Officer: LARC/J J SINGH
CASE Category: 13 – PHYSICS

NAG 5 2905 UNIVERSITY OF NORTH TEXAS **9043**
EMERGENCY AND CRISIS MANAGEMENT: A REMOTE SENSING APPLICA-TION
03/10/1995 – 03/14/1998 FY97: $50,000 Total: $263,000
Prin. Invest.: D NEAL
Tech. Officer: GSFC/F HASLER
CASE Category: 11 – ASTRONOMY

NAG 5 4891 UNIVERSITY OF NORTH TEXAS **9044**
THE PRODUCTION, CONCENTRATION, AND ARRANGEMENT OF INOR-GANIC HOSTS
06/19/1997 – 08/31/1998 FY97: $70,000 Total: $70,000
Prin. Invest.: D S BRATERMAN, NONE
Tech. Officer: GSFC/M MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 4620 UNIVERSITY OF NORTH TEXAS **9045**
THE PRODUCTION, CONCENTRATION, & ARRANGEMENT OF PR EBIOTIC MATERIALS BY INORGANIC HOSTS
07/14/1995 – 08/31/1997 FY97: $0 Total: $120,000
Prin. Invest.: P S BRATEMAN
Tech. Officer: HQ/M MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 70409 UNIVERSITY OF NORTH TEXAS **9046**
GRADUATE STUDENT RESEARCHERS (UMDF) PROGRAM
07/18/1995 – 08/31/1998 FY97: $0 Total: $44,000
Prin. Invest.: P B RAVEN
Tech. Officer: HQ/D K RUSSELL
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 3744 UNIV OF NORTH TEXAS HLTH SCI.CTR AT FT.WORTH **9047**
MICROGRAVITY: SLEEP DEPRIVATION AND AUTONOMIC CONT
03/11/1997 – 03/14/1998 FY97: $129,788 Total: $129,788
Prin. Invest.: M SMITH
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 4668 UNIV OF NORTH TEXAS HLTH SCI.CTR AT FT.WORTH **9048**
CARTOID BAROREFLEX FUNCTION DURING PROLONGED EXERC
06/17/1997 – 05/31/1998 FY97: $101,957 Total: $101,957
Prin. Invest.: P B RAVEN
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 5038 UNIV OF NORTH TEXAS HLTH SCI.CTR AT FT.WORTH **9049**
MICROGRAVITY: SLEEP DEPRIVATION AND AUTONOMIC CONT ROL
04/30/1996 – 12/31/1996 FY97: $0 Total: $100,659
Prin. Invest.: M L SMITH
Tech. Officer: HQ/F SULZMAN, HQ/V THORNE
CASE Category: 56 – MEDICL

NAG 1 1798 UNIVERSITY OF TEXAS – ARLINGTON **9050**
IGNITION SYSTEM DEVELOPMENT FOR PULSED DETONATION ENGINES– NASA/UTA CENTER FOR HYPERSONICS
01/24/1996 – 12/31/1997 FY97: $100,000 Total: $300,000
Prin. Invest.: D R WILSON
Tech. Officer: LARC/S MASSENBERG
CASE Category: 41 – AERONAUTICAL ENGNR

NAGW 3421 UNIVERSITY OF TEXAS – ARLINGTON **9051**
AN ADVANCED MODEL OF SOUL POLARIZED BIDIRECTIONAL REFLEC- TANCE
03/09/1993 – 12/31/1996 FY97: $0 Total: $258,000
Prin. Invest.: D P GIBBS
Tech. Officer: HQ/K J RANSON, HQ/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3714 UNIVERSITY OF TEXAS – ARLINGTON **9052**
NASA/UTA CENTER FOR HYPERSONIC RESEARCH
08/13/1993 – 08/31/1996 FY97: $0 Total: $430,000
Prin. Invest.: D R WILSON
Tech. Officer: HQ/S WANDER
CASE Category: 49 – ENGINEERING, OTHER

NGT 30245 UNIVERSITY OF TEXAS – ARLINGTON **9053**
GLOBAL CHANGE FELLOWSHIP PROGRAM
10/10/1994 – 08/31/1996 FY97: $0 Total: $44,000
Prin. Invest.: A K FUNG
Tech. Officer: HQ/E LUCIER, HQ/G ASRAR
CASE Category: 22 – COMPUTER SCIENCE

NGT 50896 UNIVERSITY OF TEXAS – ARLINGTON **9054**
NGT–50896/UNIV TEXAS @ ARLINGTON/GRADUATE STUDENT RESEARCHERS PROGRAM
08/14/1992 – 01/02/1996 FY97: $0 Total: $66,000
Prin. Invest.: S M YANG, NONE
Tech. Officer: LARC/E PRIOR
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1121 UNIVERSITY OF TEXAS – AUSTIN **9055**
MODELING THE GROWTH AND INTERACTION OF FRACTURES FDP
03/26/1990 – 11/30/1997 FY97: $57,953 Total: $443,568
Prin. Invest.: M E MEAR
Tech. Officer: LARC/J C NEWMAN, JR., LARC/C E HARRIS
CASE Category: 46 – MECHANICAL ENGR

NAG 1 1204 UNIVERSITY OF TEXAS – AUSTIN **9056**
MODEL STUDIES OF SONIC BOOM PROPAGATION THROUGH TH E ATMOSPHERE FD
12/03/1990 – 09/30/1996 FY97: –$3,417 Total: $556,583
Prin. Invest.: D T BLACKSTOCK, A J TUCKER
Tech. Officer: LARC/G L MCANINCH, LARC/A W MUELLER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1459 UNIVERSITY OF TEXAS – AUSTIN **9057**
ADAPTIVE–GRID ALGORITHM FOR PRISMATIC ELEMENTS
12/04/1992 – 12/31/1996 FY97: –$405 Total: $89,605
Prin. Invest.: J KALLINDERIS
Tech. Officer: LARC/R E SMITH, LARC/J J LAMBIOTTE
CASE Category: 21 – MATHEMATICS

NAG 1 1615 UNIVERSITY OF TEXAS – AUSTIN **9058**
NONLINEAR EFFECTS AT HIGH FREQUENCY IN AIRCRAFT NOISE PROP- AGATION
03/25/1994 – 09/30/1996 FY97: $0 Total: $120,000
Prin. Invest.: D T BLACKSTOCK, NONE
Tech. Officer: LARC/G L MCANINCH
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 67 UNIVERSITY OF TEXAS – AUSTIN **9059**
STUDY OF DENSITY & TEMPERATURE STRUCTURE OF CLOUDS AROUND LOW LUMINOSITY YOUNG STARS
09/01/1980 – 09/30/1998 FY97: $0 Total: $3,893,870
Prin. Invest.: P M HARVEY
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 420 UNIVERSITY OF TEXAS – AUSTIN **9060**
HIGH RESOLUTION FAR–INFRARED STUDIES OF PRE–MAIN– SEQUENCE STARS WITH MOLECULAR OUTFLOWS
10/01/1986 – 09/30/1997 FY97: $0 Total: $233,631
Prin. Invest.: N J EVANS
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 748 UNIVERSITY OF TEXAS – AUSTIN **9061**
"A HIGH SPATIAL RESOLUTION STUDY OF FAR–IR CONTINU UM EMISSION IN GALAXIES"
12/18/1991 – 09/30/1997 FY97: $0 Total: $287,574
Prin. Invest.: D F LESTER
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 1037 UNIVERSITY OF TEXAS – AUSTIN **9062**
SOFIA SCIENCE WORKING GROUP
04/16/1996 – 09/30/1997 FY97: $0 Total: $10,610
Prin. Invest.: P HARVEY
Tech. Officer: ARC/E FERICKSON
CASE Category: 11 – ASTRONOMY

NAG 2 1051 UNIVERSITY OF TEXAS – AUSTIN **9063**
A VERY HIGH RESOLUTION MID–INFRARED SPECTORGRAPH F OR SOFIA
06/05/1996 – 02/28/1998 FY97: $0 Total: $81,445
Prin. Invest.: J H LACY
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 1053 UNIVERSITY OF TEXAS – AUSTIN **9064**
FAR–INFRARED EMISSION–LINE OBSERVATIONS FROM THE K AO
06/17/1996 – 02/28/1998 FY97: $0 Total: $10,760
Prin. Invest.: H L DINERSTEIN
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 1055 UNIVERSITY OF TEXAS – AUSTIN **9065**
HIGH RESOLUTION FAR–INFRARED STUDIES OF COMPACT RE GIONS OF STAR–FORMING MOLECULAR CLOUDS
07/01/1996 – 01/31/1998 FY97: $0 Total: $20,211
Prin. Invest.: N J EVANS, II
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 1073 UNIVERSITY OF TEXAS – AUSTIN **9066**
A HIGH SPATIAL RESOLUTION STUDY OF FAR–IR CONTINUU M EMISSION OF GALAXIES
08/07/1996 – 02/28/1997 FY97: $0 Total: $20,000
Prin. Invest.: D F LESTER
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 1076 UNIVERSITY OF TEXAS – AUSTIN **9067**
FAR INFRARED CONSTRAINTS ON CIRCUMSTELLAR DUST SHE LLS
08/14/1996 – 05/31/1997 FY97: $0 Total: $30,000
Prin. Invest.: P M HARVEY
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 1083 UNIVERSITY OF TEXAS – AUSTIN **9068**
A DIFFRACTION–LIMITED, MULTICOLOR
08/23/1996 – 05/31/1998 FY97: $0 Total: $112,290
Prin. Invest.: P M HARVEY
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 6002 UNIVERSITY OF TEXAS – AUSTIN **9069**
SCIENCE IN THE STRATOSPHERE – A CUEST TEACHER PROG RAM FOR THE KAO
08/22/1994 – 09/30/1996 FY97: –$79 Total: $5,921
Prin. Invest.: L JOHNSON
Tech. Officer: ARC/H LUM
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1382 UNIVERSITY OF TEXAS – AUSTIN **9070**
EXPERIMENTS AND THEORY ON INSTABILITY IN SURFACE–T ENSION–DRIVEN BENARD CONVECTION (MARANGONI CONVEC
12/02/1992 – 05/30/1996 FY97: –$1,664 Total: $298,336
Prin. Invest.: H L SWINNEY
Tech. Officer: LERC/J A SALZMAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1839 UNIVERSITY OF TEXAS – AUSTIN **9071**
INSTABILITIES IN SURFACE–TENSION DRIVEN CONVECTION
05/06/1996 – 05/09/2000 FY97: $84,000 Total: $209,000
Prin. Invest.: H L SWINNEY
Tech. Officer: LERC/A T CHAI
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1872 UNIVERSITY OF TEXAS – AUSTIN **9072**
TERESSTRIAL EXPERIMENTS ON G–JITTER EFFECTS ON TRA NSPORT AND PATTERN FORMATIONS
05/21/1996 – 09/15/1996 FY97: –$52,408 Total: $22,592
Prin. Invest.: M F SCHATZ
Tech. Officer: LERC/W B DUVAL
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1876 UNIVERSITY OF TEXAS – AUSTIN **9073**
DIFFUISION FLAME STRUCTURE, SHAPE, EXTINCTION: GE OMETRICAL CONSIDERATIONS
06/16/1996 – 06/16/1998 FY97: $34,469 Total: $61,158
Prin. Invest.: O A EZEKEYE
Tech. Officer: LERC/D P STOCKER, LERC/H D ROSS
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1901 UNIVERSITY OF TEXAS – AUSTIN **9074**
PRECISON MEASUREMENTS WITH TRAPPED LASER–COOLED AT OMS IN A MICROGRAVITY ENVIRONMENT
06/14/1996 – 06/13/2000 FY97: $50,000 Total: $150,000
Prin. Invest.: D J HEINZEN
Tech. Officer: LERC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 5 1603 UNIVERSITY OF TEXAS – AUSTIN **9075**
HST – GTO
05/20/1991 – 10/31/1997 FY97: $590,000 Total: $8,026,785
Prin. Invest.: W H JEFFERYS
Tech. Officer: GSFC/E O KURT
CASE Category: 11 – ASTRONOMY

NAG 5 1616 UNIVERSITY OF TEXAS – AUSTIN **9076**
STELLAR SPECTROSCOPY AND THE HUBBLE SPACE TELESCOP E
05/24/1991 – 10/31/1997 FY97: $0 Total: $484,054
Prin. Invest.: D L LAMBERT
Tech. Officer: GSFC/S SOBIESKI
CASE Category: 11 – ASTRONOMY

NAG 5 1855 UNIVERSITY OF TEXAS – AUSTIN **9077**
HUBBLE SPACE TELESCOPE (HST) GUARANTEED TIME OBSER VATION
01/02/1992 – 01/14/1998 FY97: $103,000 Total: $522,000
Prin. Invest.: L M TRAFTON
Tech. Officer: GSFC/A SMITH
CASE Category: 11 – ASTRONOMY

NAG 5 1929 UNIVERSITY OF TEXAS – AUSTIN **9078**
ESTABLISHMENT OF A FLINN SITE IN WEST TEXAS
03/04/1992 – 08/31/1997 FY97: $3,500 Total: $143,498
Prin. Invest.: C R WILSON
Tech. Officer: GSFC/B G BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 1936 UNIVERSITY OF TEXAS – AUSTIN **9079**
TOWARD 10 (9) GPS GEODESY: VECTOR BASELINES, EART H ROTATION AND REFERENCE FRAMES
03/12/1992 – 03/14/1997 FY97: $51,671 Total: $466,671
Prin. Invest.: R E SCHUTZ
Tech. Officer: GSFC/B G BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 1939 UNIVERSITY OF TEXAS – AUSTIN **9080**
STUDY OF CRUSTAL DEFORMATION IN THE INDIAN–EURASIA N COLLI-SION ZONE
03/12/1992 – 04/14/1998 FY97: $40,000 Total: $314,000
Prin. Invest.: B TAPLEY
Tech. Officer: GSFC/B G BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 2146 UNIVERSITY OF TEXAS – AUSTIN **9081**
LAGEOS SATELLITE LASER RANGING DATA ANALYSIS
12/14/1992 – 12/14/1996 FY97: $0 Total: $455,383
Prin. Invest.: R J EANES, M M WATKINS
Tech. Officer: GSFC/J J DEGNAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 2217 UNIVERSITY OF TEXAS – AUSTIN **9082**
MUSCULOSKELATAL MODELS AND COMPUTATIONAL ALGORITHM S FOR THE NUMERICAL SIMULATION OF HUMAN MOTION...
02/18/1993 – 11/30/1996 FY97: $0 Total: $89,961
Prin. Invest.: M G PANDY
Tech. Officer: GSFC/J R FISCHER
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2484 UNIVERSITY OF TEXAS – AUSTIN **9083**
BORN ABUNDANCES IN A AND B TYPE STARS
01/29/1994 – 07/31/1996 FY97: $0 Total: $29,051
Prin. Invest.: D L LAMBERT
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2497 UNIVERSITY OF TEXAS – AUSTIN **9084**
DENSE LINEAR ALGEBRA ALGORITHMS BASED ON PARALLEL BLAS
02/02/1994 – 02/14/1998 FY97: $0 Total: $90,000
Prin. Invest.: R A VAN DE GEI JN
Tech. Officer: GSFC/J R FISHER
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2511 UNIVERSITY OF TEXAS – AUSTIN **9085**
APPLICATION OF MASSIVELY PARALLEL PROCESSING TECHN IQUES FOR LEAST SQUARES PROBLEMS IN SATELLITE. .
02/08/1994 – 02/14/1997 FY97: $0 Total: $90,000
Prin. Invest.: B E SCHUTZ
Tech. Officer: GSFC/J R FISHER
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2773 UNIVERSITY OF TEXAS – AUSTIN **9086**
SELECTED DYNAMO PROBLEMS IN ASTROPHYSICS
10/26/1994 – 08/31/1997 FY97: $0 Total: $183,000
Prin. Invest.: E T VISHNIAC
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2785 UNIVERSITY OF TEXAS – AUSTIN **9087**
THE EVOLUTION OF THE INTERGALACTIC MEDIUM AND THE FORMATION OF GALAXIES AND LARGE–SCALE STRUCTURE...
11/14/1994 – 12/31/1997 FY97: $91,000 Total: $255,500
Prin. Invest.: P R SHAPIRO
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2818 UNIVERSITY OF TEXAS – AUSTIN **9088**
ASTEROSEISMOLOGY OF WHITE DWARF STARS.
12/08/1994 – 11/30/1997 FY97: $79,838 Total: $239,514
Prin. Invest.: D E WINGET
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2888 UNIVERSITY OF TEXAS – AUSTIN **9089**
COMBINE: COMBUSTION IN ASTROPHYSICS
02/09/1995 – 02/14/1998 FY97: $0 Total: $420,000
Prin. Invest.: J C WHEELER
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2954 UNIVERSITY OF TEXAS – AUSTIN **9090**
DETECTING SMALL–SCALE TOPOGRAPHIC CHANGES AND RELICIT GEO-MORPHIC FEATURES ON BARRIER ISLANDS ETC
06/01/1995 – 08/31/1998 FY97: $84,759 Total: $254,759
Prin. Invest.: J C GIBEAUT
Tech. Officer: GSFC/H V FREY
CASE Category: 19 – PHYSICAL SCIENCE,OTHER

NAG 5 3079 UNIVERSITY OF TEXAS – AUSTIN **9091**
SPECTRAL AND TEMPORAL PROPERTIES OF GALACTIC BLACK HOLE CANDIDATES
09/22/1995 – 09/30/1996 FY97: $0 Total: $30,000
Prin. Invest.: J C WHEELER
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3107 UNIVERSITY OF TEXAS – AUSTIN **9092**
THEORETICAL MODELS FOR THE STELLAR MASS FUNCTION
10/19/1995 – 10/31/1997 FY97: $0 Total: $78,000
Prin. Invest.: J M SCALO
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3127 UNIVERSITY OF TEXAS – AUSTIN **9093**
GEOPOTENTIAL DETERMINATION USING SATELLITE–TO– SATELLITE TRACKING
10/19/1995 – 10/31/1997 FY97: $100,000 Total: $200,000
Prin. Invest.: B TAPLEY, NONE
Tech. Officer: GSFC/P TAYLOR
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 3128 UNIVERSITY OF TEXAS – AUSTIN **9094**
THE STUDY OF TIME VARIATIONS IN THE EARTHS GRAVITY FIELD ON GEO-DETIC SATELLITES
10/19/1995 – 10/31/1997 FY97: $50,000 Total: $100,000
Prin. Invest.: C K SHUM
Tech. Officer: GSFC/P TAYLOR
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 3129 UNIVERSITY OF TEXAS – AUSTIN **9095**
HIGH FREQUENCY VARIATIONS IN EARTH ORIENTATION
10/26/1995 – 10/31/1997 FY97: $52,800 Total: $102,800
Prin. Invest.: C R WILSON
Tech. Officer: GSFC/P TAYLOR
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 3325 UNIVERSITY OF TEXAS – AUSTIN **9096**
ECHO TOMOGRAPHY OF REPROCESSING SITES IN X–RAY BIN ARIES
08/07/1996 – 02/14/1998 FY97: $0 Total: $5,048
Prin. Invest.: E ROBINSON
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3348 UNIVERSITY OF TEXAS – AUSTIN **9097**
ANALYSIS OF ISO DATA
08/12/1996 – 08/14/1997 FY97: $0 Total: $114,800
Prin. Invest.: D L LAMBERT
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3371 UNIVERSITY OF TEXAS – AUSTIN **9098**
MONITORING SEA LEVEL CHANGE AND LAND SUBSIDENCE IN THE CHES-APEAKE BAY USING THE GLOBAL POSITIONING
08/28/1996 – 08/31/1997 FY97: $0 Total: $50,000
Prin. Invest.: R S NEREM
Tech. Officer: GSFC/B G BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3372 UNIVERSITY OF TEXAS – AUSTIN **9099**
DETECTION OF VERTICAL CRUSTAL MOTION IN ALASKA USI NG TIDE GAUGES AND TOPEX/POSEIDON ALTIMETER DATA
08/28/1996 – 08/31/1997 FY97: $0 Total: $10,000
Prin. Invest.: R S NEREM
Tech. Officer: GSFC/J M SAUBER
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3431 UNIVERSITY OF TEXAS – AUSTIN **9100**
PARASEC–SCALE ENVIRONMENT OF LIMINOUS AGN: SPECTROSCOPIC CLUES TO WINDS, JETS, AND ACCRETION
10/01/1996 – 09/30/1997 FY97: $135,606 Total: $135,606
Prin. Invest.: B J WILLS
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3649 UNIVERSITY OF TEXAS – AUSTIN **9101**
OBTAINING RELATIVITY AND OTHER RELEVANT PARAMETERS RANGING DATA
03/06/1997 – 02/28/1998 FY97: $45,876 Total: $45,876
Prin. Invest.: D J SHELLLUS
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 3773 UNIVERSITY OF TEXAS – AUSTIN **9102**
"REMOTELY SENSED SOIL MOISTURE USING FOUR DIMENSIO
02/12/1997 – 09/30/1997 FY97: $56,043 Total: $56,043
Prin. Invest.: J S FAMIGHETTI
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3786 UNIVERSITY OF TEXAS – AUSTIN **9103**
MCDONALD OBSERVATORY SUPPORT: HARLAN SMITH POST–DO PLAN-ETARY SCIENCE
03/19/1997 – 12/31/1997 FY97: $50,069 Total: $50,069
Prin. Invest.: D N BASH
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 3887 UNIVERSITY OF TEXAS – AUSTIN **9104**
CELLULAR BASES OF LIGHT–REGULATED GRAVITY RESPONSE
03/12/1997 – 01/31/1998 FY97: $86,854 Total: $86,854
Prin. Invest.: S J ROUX
Tech. Officer: GSFC/T SCOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 3930 UNIVERSITY OF TEXAS – AUSTIN **9105**
COMBUSTION IN ASTROPHYSICS
03/12/1997 – 03/14/1998 FY97: $15,860 Total: $15,860
Prin. Invest.: C J WHEELER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4008 UNIVERSITY OF TEXAS – AUSTIN **9106**
INVESTIGATING RELATIVITY PARAMETERS WITH LUNAR LAS
03/12/1997 – 12/31/1997 FY97: $39,000 Total: $39,000
Prin. Invest.: D J SHELUS
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 4059 UNIVERSITY OF TEXAS – AUSTIN **9107**
BLACK HOLE X–RAY NOVA OUTBURST WITH XTE AND HST
03/24/1997 – 03/14/1998 FY97: $5,048 Total: $5,048
Prin. Invest.: E ROBINSON
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4125 UNIVERSITY OF TEXAS – AUSTIN **9108**
INVESTIGATING RELATIVITY PARAMETERS WITH LUNAR LAS OBSERVA-TIONS
03/13/1997 – 12/31/1997 FY97: $37,800 Total: $37,800
Prin. Invest.: D J SHELUS
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 4208 UNIVERSITY OF TEXAS – AUSTIN **9109**
INVESTIGATIONS OF COMETS: HALE–BOPP, THE KUIPER BE OF OPPORTUNITY
03/14/1997 – 03/14/1998 FY97: $84,333 Total: $84,333
Prin. Invest.: D L COCHRAN
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 4209 UNIVERSITY OF TEXAS – AUSTIN **9110**
MICROMACHINED DIFFRACTION GRATINGS FOR COMPACT IR
03/14/1997 – 03/14/1998 FY97: $85,201 Total: $85,201
Prin. Invest.: D JAFFE
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 4384 UNIVERSITY OF TEXAS – AUSTIN **9111**
RADIAL VELOCITY DETECTION OF EXTRA–SOLAR PLANETARY
04/24/1997 – 02/28/1998 FY97: $170,000 Total: $170,000
Prin. Invest.: D D COCHRAN
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4511 UNIVERSITY OF TEXAS – AUSTIN **9112**
IMPROVED OCEAN TIDE MODELS FROM SATELLITE ALTIMETR N TO GEODYNAMICS RESEARCH (NRA–96–MTPE–01)
06/02/1997 – 05/31/1998 FY97: $45,000 Total: $45,000
Prin. Invest.: R J EANES
Tech. Officer: GSFC/C KOBLINSKY
CASE Category: 33 – OCEANOGRAPHY

NAG 5 4512 UNIVERSITY OF TEXAS – AUSTIN **9113**
IMPROVEMENT OF TOPEX/POSEIDON ALTIMETER DATA FOR G AND COASTAL APPLICATIONS(NRA–96–MTPE–01)
06/02/1997 – 05/31/1998 FY97: $93,000 Total: $93,000
Prin. Invest.: C K SHUM
Tech. Officer: GSFC/C KOBLINSKY
CASE Category: 33 – OCEANOGRAPHY

NAG 5 4513 UNIVERSITY OF TEXAS – AUSTIN **9114**
AN INVESTIGATION OF VERY LOW FREQUENCY SEA LEVEL C POSEIDON ALTIMETER DATA (NRA–96–MTPE–01)
06/02/1997 – 05/31/1998 FY97: $139,000 Total: $139,000
Prin. Invest.: R S NEREM
Tech. Officer: GSFC/C KOBLINSKY
CASE Category: 33 – OCEANOGRAPHY

NAG 5 4514 UNIVERSITY OF TEXAS – AUSTIN **9115**
DETERMINATION AND INTERPRETATION OF DYNAMIC TOPOGR POSEIDON (NRA–96–MTPE–01)
06/02/1997 – 05/31/1998 FY97: $75,000 Total: $75,000
Prin. Invest.: B D TAPLEY
Tech. Officer: GSFC/C KOBLINSKY
CASE Category: 33 – OCEANOGRAPHY

NAG 5 4566 UNIVERSITY OF TEXAS – AUSTIN **9116**
UNIVERSO & HISPANIC HERITAGE MONTH RADIO PROGRAMS CLASSROOM
06/23/1997 – 05/31/1998 FY97: $65,000 Total: $65,000
Prin. Invest.: S BARNES
Tech. Officer: GSFC/J D ROSEDHAL
CASE Category: 11 – ASTRONOMY

NAG 5 4887 UNIVERSITY OF TEXAS – AUSTIN **9117**
DIRECT SIMULATION OF LOW DENSITY ATMOSPHERE FLOW
06/20/1997 – 06/30/1998 FY97: $54,627 Total: $54,627
Prin. Invest.: D GOLDSTEIN
Tech. Officer: GSFC/S HOWARD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4934 UNIVERSITY OF TEXAS – AUSTIN **9118**
GROUND BASED STUDIES OF THE OUTER PLANETS
06/23/1997 – 07/31/1998 FY97: $45,000 Total: $45,000
Prin. Invest.: D TRAFTON
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 5170 UNIVERSITY OF TEXAS – AUSTIN **9119**
DETERMINATIONOF TIME–VARYING EARTH GRAVITY FIELD F Y
07/17/1997 – 07/14/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: M CHENG
Tech. Officer: GSFC/H FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 5171 UNIVERSITY OF TEXAS – AUSTIN **9120**
MEASUREMENT AND INTERPRETATION OF TEMPORAL VARIATI VITY FIELD USING GPS AND SLR
07/17/1997 – 07/14/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: R R EM
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 6140 UNIVERSITY OF TEXAS – AUSTIN **9121**
HIGH DISPERSION SPECTROSCOPY OF MARS, PLUTO AND CO
09/08/1997 – 08/31/1998 FY97: $130,000 Total: $130,000
Prin. Invest.: D S BARKER
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 6300 UNIVERSITY OF TEXAS – AUSTIN **9122**
UNIVERSITY OF TEXAS, ENHANCEMENT USING A SPECIAL C
09/17/1997 – 09/14/1998 FY97: $19,911 Total: $19,911
Prin. Invest.: W T FOWLER
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6368 UNIVERSITY OF TEXAS – AUSTIN **9123**
ASTROMETRY AND DYNAMICS OF NEAR–EARTH OBJECTS AND KIRKWOOD GAPS
09/25/1997 – 09/30/1998 FY97: $56,000 Total: $56,000
Prin. Invest.: D S BARKER
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 8 1090 UNIVERSITY OF TEXAS – AUSTIN **9124**
ATOM MEASUREMENT
09/07/1994 – 03/05/1997 FY97: $0 Total: $100,000
Prin. Invest.: D J HEINZEN
Tech. Officer: MSFC/D A NOEVER
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1130 UNIVERSITY OF TEXAS – AUSTIN **9125**
SUBSTRUCTURE SYSTEM IDENTIFICATION FOR FINITE ELEMENT MODEL UPDATING
04/19/1995 – 08/31/1996 FY97: $0 Total: $50,333
Prin. Invest.: R R CRAIG, JR.
Tech. Officer: MSFC/M L TINKER, MSFC/P S BOOKOUT
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 9 745 UNIVERSITY OF TEXAS – AUSTIN **9126**
WIDE AREA NETWORK INSTANTIATION DEPLOYMENT & MANAG EMENT OF AUTONOMOUS KNOWLEDGE ROBOTS
06/10/1994 – 04/30/1998 FY97: $49,989 Total: $204,989
Prin. Invest.: C C STOUT, C D STOUT
Tech. Officer: JSC/R SAVELY, JSC/R SHELTON
CASE Category: 22 – COMPUTER SCIENCE

NAG 9 804 UNIVERSITY OF TEXAS – AUSTIN **9127**
NEUROMECHANICAL POSTUAL CONTROL SYNERGIES SUPPORTI NG VOL-UNTARY MOVEMENT
08/17/1995 – 05/31/1997 FY97: $0 Total: $38,663
Prin. Invest.: L D ABRAHAM
Tech. Officer: JSC/J BLOOMBERG
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 9 805 UNIVERSITY OF TEXAS – AUSTIN **9128**
MUSCULOSKELETAL MODELING OF HUMAN UPPER EXTREMITY PER-FORMANCE
08/16/1995 – 06/12/1997 FY97: $0 Total: $59,385
Prin. Invest.: R E BARR, L D ABRAHAM, M G PANDY
Tech. Officer: JSC/K DEMEL
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 9 808 UNIVERSITY OF TEXAS – AUSTIN **9129**
COUPLING OF SPH & FINITE ELEMENT CODES FOR MULTI L AYER ORBITAL DEBRIS SHIELD DESIGN
08/10/1995 – 06/20/1997 FY97: $0 Total: $57,800
Prin. Invest.: E P FAHRETHOLD
Tech. Officer: JSC/E CHRISTIANSEN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 9 809 UNIVERSITY OF TEXAS – AUSTIN **9130**
ADVANCED DEVELOPMENT ON FAULT TOLERANCE TECH
08/21/1995 – 07/31/1998 FY97: $266,498 Total: $794,498
Prin. Invest.: D TESAR
Tech. Officer: JSC/J T CHLADEK
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 9 828 UNIVERSITY OF TEXAS – AUSTIN **9131**
SCALABLE DISTRIBUTED APPROACH TO MOBILE ROBOT VISI ON
08/16/1995 – 08/31/1996 FY97: $0 Total: $65,712
Prin. Invest.: B KUIPERS
Tech. Officer: JSC/T PENDLETON
CASE Category: 22 – COMPUTER SCIENCE

NAG 9 829 UNIVERSITY OF TEXAS – AUSTIN **9132**
SUBSTRUCTURE SYSTEM INDENTIFICATION & MATH UPDATIN G
09/22/1995 – 09/30/1998 FY97: $0 Total: $60,779
Prin. Invest.: R R CRAIG, JR.
Tech. Officer: JSC/N TENGLER
CASE Category: 49 – ENGINEERING, OTHER

NAG 9 840 UNIVERSITY OF TEXAS – AUSTIN **9133**
COMPUTATIONAL APPROACH TO MODELING RAREFIED & CONT INUUM FLOW ABOUT AEROSPACE VEHICLES
08/15/1995 – 12/31/1996 FY97: –$47 Total: $66,578
Prin. Invest.: D B GOLDSTEIN, P L VARGHESE
Tech. Officer: JSC/F L LUMPKIN
CASE Category: 13 – PHYSICS

NAG 9 841 UNIVERSITY OF TEXAS – AUSTIN **9134**
DESIGN OF AUTOMATIC CONTROL FOR HUMAN/LCG THERMAL INTERAC-TION
09/25/1995 – 09/30/1998 FY97: $0 Total: $87,500
Prin. Invest.: K R DILLER
Tech. Officer: JSC/C LIN
CASE Category: 46 – MECHANICAL ENGR

NAG 9 890 UNIVERSITY OF TEXAS – AUSTIN **9135**
DEV BOUNDARY ELEMENT PROCEDURE 3–DIM STRESS ANALYS IS
08/20/1996 – 02/19/1998 FY97: $48,394 Total: $101,394
Prin. Invest.: D E MEAR
Tech. Officer: JSC/R G FORMAN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 9 891 UNIVERSITY OF TEXAS – AUSTIN **9136**
ANALYSIS OF PV POWERED REFRIG SYS FOR AEROSPACE TERRESTRIAL APPS
08/19/1996 – 08/18/1998 FY97: $0 Total: $47,500
Prin. Invest.: D C VLIET
Tech. Officer: JSC/M EWERT
CASE Category: 49 – ENGINEERING, OTHER

NAG 9 897 UNIVERSITY OF TEXAS – AUSTIN **9137**
CONTINUUM AEROSPACE VEHICLES FLOW STUDY
08/09/1996 – 08/14/1998 FY97: $0 Total: $77,000
Prin. Invest.: D B GOLDSTEIN, D L VARGHESE
Tech. Officer: JSC/F LUMPKIN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 9 898 UNIVERSITY OF TEXAS – AUSTIN **9138**
SPATIAL REASONING FOR SCALABLE DISTRIBUTED ROBOT VISION
08/06/1996 – 01/31/1998 FY97: $0 Total: $69,000
Prin. Invest.: D KUIPERS
Tech. Officer: JSC/T PENDLETON
CASE Category: 49 – ENGINEERING, OTHER

NAG 9 912 UNIVERSITY OF TEXAS – AUSTIN **9139**
TSGC PROTOTYPE/SHUTTLE PHOTO ESSAY PROJECT
09/24/1996 – 09/25/1998 FY97: $0 Total: $20,000
Prin. Invest.: W T FOWLER
Tech. Officer: JSC/K D LULLA
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 9 946 UNIVERSITY OF TEXAS – AUSTIN **9140**
PARTICLE HYDRODYNAMICS W/MATERIAL STRENGTH FOR MULTI LAYER ORBITAL DEBRIS
06/12/1997 – 06/22/1998 FY97: $67,026 Total: $67,026
Prin. Invest.: E P FAHRENTHOLD
Tech. Officer: JSC/E L CHRISTIANSEN
CASE Category: 46 – MECHANICAL ENGR

NAGW 1477 UNIVERSITY OF TEXAS – AUSTIN **9141**
A CONTINUED PROGRAM OF PLANETARY STUDY AT THE UNIV
12/12/1988 – 06/30/1998 FY97: $0 Total: $2,344,737
Prin. Invest.: H J SMITH
Tech. Officer: HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NAGW 1519 UNIVERSITY OF TEXAS – AUSTIN **9142**
CELLULAR BASIS OF GRAVITY AND LIGHT–INDUCED GEOTROPISM
11/21/1988 – 04/30/1999 FY97: $0 Total: $545,798
Prin. Invest.: S J ROUX
Tech. Officer: HQ/T W HALSTEAD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 1959 UNIVERSITY OF TEXAS – AUSTIN **9143**
THE DETERMINATION OF CRUSTAL MOTIONS USING SATELLI TE LASER RANGING TO LAGEOS–II AND LAGEOS–I
05/29/1990 – 09/30/1995 FY97: –$1,090 Total: $826,010
Prin. Invest.: B D TAPLEY
Tech. Officer: HQ/M BALTUCK
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 2132 UNIVERSITY OF TEXAS – AUSTIN **9144**
PRECISION ORBIT DETERMINATION AND CALIBRATION SUPP ORT FOR U.S. WORLD OCEAN CIRCULATION EXPERIMENT
09/07/1990 – 08/31/1997 FY97: $0 Total: $1,114,750
Prin. Invest.: B TAPLEY
Tech. Officer: HQ/B DOUGLAS, HQ/R C HARRISS
CASE Category: 33 – OCEANOGRAPHY

NAGW 2314 UNIVERSITY OF TEXAS – AUSTIN **9145**
NAGW–2314/UNIV TEXAS @ AUSTIN/GROUND BASED STUDIES OF THE OUTER PLANETS
06/13/1991 – 07/31/1998 FY97: $0 Total: $458,400
Prin. Invest.: L M TRAFTON
Tech. Officer: HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NAGW 2399 UNIVERSITY OF TEXAS – AUSTIN **9146**
THE EVOLUTION OF THE INTERGALACTIC MEDIUM AND THE FORMATION OF GALAXIES AND LARGE–SCALE STRUCTURE
05/09/1991 – 12/31/1995 FY97: –$128 Total: $300,784
Prin. Invest.: P R SHAPIRO
Tech. Officer: HQ/G S KUTTER, HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 2615 UNIVERSITY OF TEXAS – AUSTIN **9147**
EARTH SYSTEM DYNAMICS; THE DETERMINATION AND INTER PRETATION OF THE GLOBAL ANGULAR MOMENTUM BUDGET
07/24/1991 – 09/30/1997 FY97: $0 Total: $5,458,000
Prin. Invest.: B TAPLEY
Tech. Officer: HQ/A J ANDERSON, HQ/W S WILSON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 2815 UNIVERSITY OF TEXAS – AUSTIN **9148**
DISTURBANCE, SPATIAL HETEROGENEITY, AND BIOTIC DIV ERSITY IN ARID AUSTRALIA
01/17/1992 – 11/30/1995 FY97: –$1,302 Total: $298,774
Prin. Invest.: E R PIANKA
Tech. Officer: HQ/J D RUMMEL
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAGW 2941 UNIVERSITY OF TEXAS – AUSTIN **9149**
THE STUDY OF EFFECTS OF THE VARIATIONS IN THE EART H'S GRAVITY FIELD ON GEODETIC SATELLITES
02/28/1992 – 09/30/1995 FY97: –$7,426 Total: $188,349
Prin. Invest.: C K SHUM
Tech. Officer: HQ/R E MURPHY, HQ/D M BUTLER
CASE Category: 13 – PHYSICS

NAGW 2970 UNIVERSITY OF TEXAS – AUSTIN **9150**
INVESTIGATING RELATIVITY PARAMETERS WITH LUNAR LAS ER RANGING DATA
03/12/1992 – 05/31/1996 FY97: $0 Total: $298,770
Prin. Invest.: P J SHELUS
Tech. Officer: HQ/R STACHNIK
CASE Category: 41 – AERONAUTICAL ENGNR

NAGW 3111 UNIVERSITY OF TEXAS – AUSTIN **9151**
ASTROMETRIC SUPPORT FOR THE REDUCTION OF HIPPARCOS COORDI-NATE SYSTEM DATE
06/23/1992 – 06/30/1997 FY97: $0 Total: $229,480
Prin. Invest.: R DUNCOMBE
Tech. Officer: HQ/R V STACHNIK, HQ/R V STACHNIK
CASE Category: 11 – ASTRONOMY

NAGW 3505 UNIVERSITY OF TEXAS – AUSTIN **9152**
NAGW–2505/UNIV TEXAS AUSTIN/VENUSIAN GRAVITATIONAL FIELD AND TOPOGRAPH USING PIONEERVENUS ORBITER
04/16/1993 – 09/30/1995 FY97: –$5,447 Total: $54,053
Prin. Invest.: C K SHUM
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3971 UNIVERSITY OF TEXAS – AUSTIN **9153**
PHYSICAL OBSERVATIONS OF COMETRAY COMAE
05/14/1994 – 03/31/1997 FY97: $0 Total: $192,567
Prin. Invest.: A COCHRAN
Tech. Officer: HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NAGW 3990 UNIVERSITY OF TEXAS – AUSTIN **9154**
RADIAL VELOCITY DETECTION OF EXTRA SOLAR PLANETARY SYSTEMS
05/13/1994 – 02/28/1998 FY97: $0 Total: $417,604
Prin. Invest.: W COCHRAN
Tech. Officer: HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NAGW 4012 UNIVERSITY OF TEXAS – AUSTIN **9155**
CCD ASTROMETRY OF FAINT SOLAR SYSTEM OBJECTS
05/23/1994 – 02/28/1997 FY97: $0 Total: $34,015
Prin. Invest.: A WHIPPLE
Tech. Officer: HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NAGW 4027 UNIVERSITY OF TEXAS – AUSTIN **9156**
DIFFRACTION GRATING FOR COMPACT IR SPECTROMETERS I N SPACE
05/24/1994 – 09/30/1997 FY97: $0 Total: $81,899
Prin. Invest.: D JAFFE
Tech. Officer: HQ/L J CAROFF
CASE Category: 11 – ASTRONOMY

NAGW 4087 UNIVERSITY OF TEXAS – AUSTIN **9157**
REMOTE SENSING SOIL MOISTURE USING FOUR DIMENSIONAL DATA ASSIMILATION
07/26/1994 – 06/30/1997 FY97: $0 Total: $109,896
Prin. Invest.: J S FAMIGLIETTI
Tech. Officer: HQ/M Y WEI, HQ/J S THEON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4247 UNIVERSITY OF TEXAS – AUSTIN **9158**
MUTIRESOLUTION INFORMATION ARCHIVAL AND ANALYSIS SYSTEM
02/10/1995 – 08/31/1997 FY97: $0 Total: $520,833
Prin. Invest.: D FUSSELL
Tech. Officer: HQ/R S MCGINNIS
CASE Category: 22 – COMPUTER SCIENCE

NAGW 4277 UNIVERSITY OF TEXAS – AUSTIN **9159**
INVESTIGATING RELATIVITY PARAMETERS WITH LUNAR LAS ER RANGING DATA
02/13/1995 – 12/31/1996 FY97: $0 Total: $78,000
Prin. Invest.: P J SHELUS
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 4561 UNIVERSITY OF TEXAS – AUSTIN **9160**
CREW CULTURE SELECTION TRAINING AND PERFORMANCE
05/31/1995 – 05/31/1996 FY97: –$1,791 Total: $98,209
Prin. Invest.: R L HELMREICH
Tech. Officer: HQ/V SCHNEIDER, HQ/A FREY
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4696 UNIVERSITY OF TEXAS – AUSTIN **9161**
HUMAN DIMENSIONS OF DEFORESTATION & REGROWTH IN TH E BRAZILIAN AMAZON: INTEGRATING DATA FROM SATELLI
08/10/1995 – 08/31/1997 FY97: $0 Total: $116,195
Prin. Invest.: C WOOD, T PULLUM, S SANDERSON
Tech. Officer: HQ/N MAYNARD, HQ/R C HARRISS
CASE Category: 79 – SOCIAL SCIENCE, OTHER

NAGW 4727 UNIVERSITY OF TEXAS – AUSTIN **9162**
SPACE DISTRIBUTION OF A AND F STARS IN THE SOLAR N EIGHBORHOOD
08/28/1995 – 08/31/1997 FY97: $0 Total: $34,135
Prin. Invest.: R DUNCOMBE
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 4808 UNIVERSITY OF TEXAS – AUSTIN **9163**
UNIVERSO, A SPANISH–LANGUAGE ASTRONOMY RADIO PROGRAM
09/28/1995 – 08/31/1996 FY97: $0 Total: $60,000
Prin. Invest.: F N BASH
Tech. Officer: HQ/J ROSENDHAL, HQ/G P NEWTON
CASE Category: 11 – ASTRONOMY

NAGW 4813 UNIVERSITY OF TEXAS – AUSTIN **9164**
REDUCTION AND ANALYSIS OF HIPPARCOS DATA
09/28/1995 – 08/31/1997 FY97: $0 Total: $34,135
Prin. Invest.: R L DUNCOMBE
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 4862 UNIVERSITY OF TEXAS – AUSTIN **9165**
INVESTIGATING RELATIVITY PARAMETERS WITH LUNAR LASER RANGING DATA: OBSERVATIONS
11/09/1995 – 12/31/1998 FY97: $0 Total: $36,690
Prin. Invest.: P J SHERUS
Tech. Officer: HQ/L TATT, HQ/D W WEEDMAN
CASE Category: 13 – PHYSICS

NAGW 5187 UNIVERSITY OF TEXAS – AUSTIN **9166**
MONITORING OF COMET HALE–BOPP AND MARTIAN WATER VA POR IN 1996 1997
09/04/1996 – 08/31/1998 FY97: $0 Total: $130,000
Prin. Invest.: E BAKER
Tech. Officer: HQ/J BERGSTRALH, HQ/H C BRINTON
CASE Category: 11 – ASTRONOMY

NAGW 5190 UNIVERSITY OF TEXAS – AUSTIN **9167**
VERIFICATION AND IMPROVEMENT OF EPS–1/2 GEOPHYSICA L DATA RECORDS FOR GLOBAL CHANGE STUDIES
09/19/1996 – 06/30/1997 FY97: $0 Total: $60,000
Prin. Invest.: C K SHUM
Tech. Officer: HQ/B C DOUGLAS, HQ/R C HARRISS
CASE Category: 33 – OCEANOGRAPHY

NAGW 5230 UNIVERSITY OF TEXAS – AUSTIN **9168**
RESEARCH (DIRECT)
10/09/1996 – 06/30/1997 FY97: $42,529 Total: $42,529
Prin. Invest.: D GOLDSTEIN
Tech. Officer: HQ/J BERGSTRALH, HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 5237 UNIVERSITY OF TEXAS – AUSTIN **9169**
A NUMERICAL STUDY OF THE BERKNER SHELF POLYNA
01/08/1997 – 09/30/1997 FY97: $80,000 Total: $80,000
Prin. Invest.: D C SMITH, 1V
Tech. Officer: HQ/B C DOUGLAS, HQ/R C HARRISS
CASE Category: 33 – OCEANOGRAPHY

NAGW 5240 UNIVERSITY OF TEXAS – AUSTIN **9170**
MULTISCALE SOIL MOISTURE VARIABILITY FROM COMBINED REMOTE SENSING MODELING AND OBSERVATIONS
11/25/1996 – 12/31/1997 FY97: $166,745 Total: $166,745
Prin. Invest.: J FAMINGLIETTI
Tech. Officer: HQ/G ASRAR, HQ/R C HARRISS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG10 143 UNIVERSITY OF TEXAS – AUSTIN **9171**
MICROBIAL CELLULOSE ASSEMBLY IN MICROGRAVITY
08/15/1994 – 12/31/1996 FY97: $0 Total: $99,835
Prin. Invest.: R M BROWN JR.
Tech. Officer: KSC/W M KNOTT
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG10 202 UNIVERSITY OF TEXAS – AUSTIN **9172**
EARLY DEVELOPMENT OF FERN GAMETOPHYTES IN MICROSCAVITY
10/16/1996 – 09/30/1998 FY97: $185,125 Total: $185,125
Prin. Invest.: S J POUX
Tech. Officer: KSC/W M KNOTT
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAS 5 32997 UNIVERSITY OF TEXAS – AUSTIN **9173**
OPERATION, MAINTENANCE AND ENGINEERING DEVELOPMENT OF THE UNIV OF TX LASER RANGING STATION
04/17/1996 – 02/28/1998 FY97: $470,000 Total: $780,346
Prin. Invest.: P J SHELUS
Tech. Officer: GSFC/J MCGARRY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAS 5 33021 UNIVERSITY OF TEXAS – AUSTIN **9174**
EOS INTERDISCIPLINARY STUDY FOR THE GEODYNAMICS LASER
12/12/1989 – 12/31/1997 FY97: $615,000 Total: $2,040,200
Prin. Invest.: B SCHUTZ
Tech. Officer: GSFC/G SOFFE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 5 97213 UNIVERSITY OF TEXAS – AUSTIN **9175**
GRAVITY RECOVERY AND CLIMATE EXPERIMENT (GRACE)
08/12/1997 – 02/12/1999 FY97: $300,000 Total: $300,000
Prin. Invest.: B TAPLEY
Tech. Officer: GSFC/R FITZGERALD
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 9 97045 UNIVERSITY OF TEXAS – AUSTIN **9176**
MARS PRECISION LANDING TASK
03/03/1997 – 03/03/1998 FY97: $153,338 Total: $153,338
Prin. Invest.: B D TAPLEY, R H BISHOP
Tech. Officer: JSC/R CARPENTER
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 787 UNIVERSITY OF TEXAS – AUSTIN **9177**
DEVELOPMENT AND IMPLEMENTATION OF NASA TECHNOLOGY COMMERCIALIZATION FIELD CENTERS (NTCC)
04/21/1993 – 10/31/1996 FY97: –$258,540 Total: $2,710,960
Prin. Invest.: G KOZMETSKY
Tech. Officer: ARC/C S HAYWARD, ARC/D H BROCKER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 2 5174 UNIVERSITY OF TEXAS – AUSTIN **9178**
COMPARISON OF ALTERNATE DESIGNS FOR CIVIL TILTROTO R AIRCRAFT
03/25/1996 – 11/30/1996 FY97: $0 Total: $12,000
Prin. Invest.: D MARK
Tech. Officer: ARC/M J AQUILERA
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 5 154 UNIVERSITY OF TEXAS – AUSTIN **9179**
GRAND CHALLENGE RESEARCH
08/21/1996 – 08/01/1999 FY97: $300,000 Total: $550,000
Prin. Invest.: G CAREY
Tech. Officer: GSFC/J R FISCHER
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NCC 9 22 UNIVERSITY OF TEXAS – AUSTIN **9180**
DEVELOPEMENT IMPLEMENTATION OF A NASA BASED TECH COMMERCIALIZATION
02/04/1993 – 09/30/1995 FY97: –$86,196 Total: $1,439,143
Prin. Invest.: G KOZMETSKY
Tech. Officer: JSC/W J HUFFSTETLER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 30194 UNIVERSITY OF TEXAS – AUSTIN **9181**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/26/1993 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: K W BUTZER
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 40003 UNIVERSITY OF TEXAS – AUSTIN **9182**
NATIONAL SPACE GRANT COLLEGE & FELLOWSHIP PROGRAM
10/10/1989 – 09/30/1997 FY97: $0 Total: $3,151,070
Prin. Invest.: B D TAPLEY
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 50998 UNIVERSITY OF TEXAS – AUSTIN **9183**
NGT-50998/UNIV TEXAS @ AUSTIN/GRADUATE STUDENT RESEARCHERS PROGRAM
08/28/1992 – 08/31/1996 FY97: –$6 Total: $65,994
Prin. Invest.: D T JAFFE
Tech. Officer: HQ/J K ALEXANDER
CASE Category: 11 – ASTRONOMY

NGT 51025 UNIVERSITY OF TEXAS – AUSTIN **9184**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/14/1993 – 08/31/1997 FY97: $0 Total: $65,710
Prin. Invest.: M G PANDY
Tech. Officer: ARC/M MOORE
CASE Category: 46 – MECHANICAL ENGR

NGT 51138 UNIVERSITY OF TEXAS – AUSTIN **9185**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/29/1993 – 08/31/1996 FY97: –$477 Total: $43,523
Prin. Invest.: C SEDAN
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51151 UNIVERSITY OF TEXAS – AUSTIN **9186**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/03/1993 – 08/31/1996 FY97: –$67 Total: $65,933
Prin. Invest.: H L SWINNEY
Tech. Officer: HQ/B CARPENTER
CASE Category: 13 – PHYSICS

NGT 51332 UNIVERSITY OF TEXAS – AUSTIN **9187**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/27/1994 – 12/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: R MOONEY
Tech. Officer: HQ/D HOLLAND
CASE Category: 22 – COMPUTER SCIENCE

NGT 51365 UNIVERSITY OF TEXAS – AUSTIN **9188**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/16/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: B G SANDERS
Tech. Officer: HQ/G LESANE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 70338 UNIVERSITY OF TEXAS – AUSTIN **9189**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
06/29/1993 – 06/30/1996 FY97: $0 Total: $66,000
Prin. Invest.: J CAMBELL
Tech. Officer: HQ/D K RUSSELL
CASE Category: 45 – ELECTRICAL ENGR

NGT 90216 UNIVERSITY OF TEXAS – AUSTIN **9190**
UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
09/23/1993 – 08/14/1996 FY97: $0 Total: $36,000
Prin. Invest.: R H BISHOP
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90249 UNIVERSITY OF TEXAS – AUSTIN **9191**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
01/31/1995 – 08/14/1996 FY97: $0 Total: $24,000
Prin. Invest.: S REED
Tech. Officer: HQ/D K RUSSELL
CASE Category: 45 – ELECTRICAL ENGR

NGT 1 52147 UNIVERSITY OF TEXAS – AUSTIN **9192**
GRADUATE STUDENT RESEARCH PROGRAM (GSRP)
07/26/1996 – 08/31/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: D GARZA
Tech. Officer: LARC/R D BRAUM
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 33 UNIVERSITY OF TEXAS – AUSTIN **9193**
DEVELOPMENT OF A PARALLRL ALGORITHM FOR LAND SURFA CE HYDROLOGY AND RIVER TRANSPORT IN COUPLED
07/29/1996 – 08/31/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: J FAMIGLIETTI
Tech. Officer: GSFC/G A SOFFEN, GSFC/M SUAREZ
CASE Category: 22 – COMPUTER SCIENCE

NGT 5 30008 UNIVERSITY OF TEXAS – AUSTIN **9194**
A CONTINENTAL RIVE FOUTING ALGORITHM FOR GLOBAL WA COUPLED EARTH SYSTEM MODELS
10/14/1996 – 08/31/1997 FY97: $44,000 Total: $44,000
Prin. Invest.: J FAMIGLIETTI
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 40005 UNIVERSITY OF TEXAS – AUSTIN **9195**
UNIVERSO AND HISPANIC HERITAGE MONTH ASTRONOMY RAD
11/16/1996 – 08/31/1997 FY97: $32,500 Total: $32,500
Prin. Invest.: B D TAPLEY
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40016 UNIVERSITY OF TEXAS – AUSTIN **9196**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA TRAINING WORKSHOP
12/11/1996 – 01/31/1997 FY97: $19,586 Total: $19,586
Prin. Invest.: B D TAPLEY
Tech. Officer: GSFC/L OSTENDORF
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40053 UNIVERSITY OF TEXAS – AUSTIN **9197**
TEXAS SPACE GRANT CONSORTUM & GLOBE TEACHER TRAINI
02/12/1997 – 12/31/1997 FY97: $502,903 Total: $502,903
Prin. Invest.: B D TAPLEY
Tech. Officer: GSFC/L OSTENDORF
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50004 UNIVERSITY OF TEXAS – AUSTIN **9198**
THE VARIABILITY OF OCEANIC ANGULAR MOMENTUM AND TH MENTUM BUDGET: A GEODETIC APPROACHTO GLOBAL CLIM
11/16/1996 – 08/31/1997 FY97: $44,000 Total: $44,000
Prin. Invest.: C WILSON
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 5 50099 UNIVERSITY OF TEXAS – AUSTIN **9199**
DIFFERENTIAL GENE EXPRESSION IN GERMINATING SPORES
08/29/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: ROUX
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 90017 UNIVERSITY OF TEXAS – AUSTIN **9200**
UNIVERSITY STUDENT AWARDS FOR RESEARCH (USAR)
01/02/1997 – 08/14/1997 FY97: $12,000 Total: $12,000
Prin. Invest.: R H BISHOP
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 49 – ENGINEERING, OTHER

NGT 9 29 UNIVERSITY OF TEXAS – AUSTIN **9201**
ADVANCEMENT OF PRECISION LANDING,GUIDANCE, & NAVIGATION CONTROL TECHNIQUES FOR MARS LANDING
09/24/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: W E HUTCHISON, R H BISHOP
Tech. Officer: JSC/D G SICKCOREZ
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 5 3598 UNIVERSITY OF TEXAS – DALLAS **9202**
TIDAL STUDIES IN THE MESOSPHERE
01/29/1997 – 08/31/1997 FY97: $56,933 Total: $56,933
Prin. Invest.: C TESEN
Tech. Officer: GSFC/C JACKMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3740 UNIVERSITY OF TEXAS – DALLAS **9203**
MULTIPLE TETHERED SATELLITES FOR IONOSPHERIC STUDI
03/06/1997 – 03/14/1998 FY97: $72,903 Total: $72,903
Prin. Invest.: D A HEELIS
Tech. Officer: GSFC/R HOWARD
CASE Category: 13 – PHYSICS

NAG 5 4187 UNIVERSITY OF TEXAS – DALLAS **9204**
DEVELOPMENT AND DEMONSTRATION OF A ROBUST MICRO–EL PRESSURE TRANSDUCER FOR LOW ALTITUDE SATELLITE AN
04/01/1997 – 04/30/1998 FY97: $66,707 Total: $66,707
Prin. Invest.: D D EARLE
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 4371 UNIVERSITY OF TEXAS – DALLAS **9205**
PROPOSAL FOR CONTINUATION OF MARS 96 CO–INVESTIGAT IO EXPERIMENT: FY 1996–1998
04/14/1997 – 01/31/1998 FY97: $25,000 Total: $25,000
Prin. Invest.: D HODGES, JR.
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4374 UNIVERSITY OF TEXAS – DALLAS **9206**
INTERDISCIPLINARY STUDY OF PLANETARY ATMOSPHERES
04/25/1997 – 09/30/1997 FY97: $30,000 Total: $30,000
Prin. Invest.: D R HODGES, JR.
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4465 UNIVERSITY OF TEXAS – DALLAS **9207**
THE SPATIAL DISTRIBUTION OF IONOSPHERIC PLASMA AND IGH LATITUDES
05/27/1997 – 04/30/1998 FY97: $60,343 Total: $60,343
Prin. Invest.: D A HEELIS
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 4644 UNIVERSITY OF TEXAS – DALLAS **9208**
MICRO–TIP ARRAY MASS SPECTROMETER ION SOURCE
05/30/1997 – 05/31/1998 FY97: $71,100 Total: $71,100
Prin. Invest.: D H HOFFMAN
Tech. Officer: GSFC/B CAMPBELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 4725 UNIVERSITY OF TEXAS – DALLAS **9209**
ADAPTIVE IDENTIFICATION AND CHARACTERIZATION OF PO
06/18/1997 – 04/30/1998 FY97: $62,875 Total: $62,875
Prin. Invest.: R COLEY
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 5076 UNIVERSITY OF TEXAS – DALLAS **9210**
PROPOSAL TO COMPLETE SOUNDING ROCKET PROJECT 21.11 4
05/09/1996 – 04/30/1998 FY97: $140,000 Total: $203,452
Prin. Invest.: G D EARLE
Tech. Officer: GSFC/L W GURKIN
CASE Category: 13 – PHYSICS

NAG 5 5086 UNIVERSITY OF TEXAS – DALLAS **9211**
ROCKET/RADAR INVESTIGATION OF LOWER IONOSPHERIC ELECTRODYNAMICS ASSOCIATED WITH INTENSE MID–LATITU
06/28/1996 – 05/31/1998 FY97: $92,723 Total: $173,992
Prin. Invest.: R A HEELIS
Tech. Officer: GSFC/L W GURKIN
CASE Category: 13 – PHYSICS

NAG 9 885 UNIVERSITY OF TEXAS – DALLAS **9212**
DEVELOPMENT AND TESTS OF INSTRUMENTATION INTENDED FOR REMOTE REGOLITH STUDIES
07/12/1996 – 06/30/1997 FY97: $0 Total: $52,500
Prin. Invest.: D H HOFFMAN, D D HAMMACK
Tech. Officer: JSC/D MCKAY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 1665 UNIVERSITY OF TEXAS – DALLAS **9213**
INTERDISCIPLINARY STUDY OF PLANETARY ATMOSPHERES
02/10/1989 – 11/30/1995 FY97: $0 Total: $513,536
Prin. Invest.: F S JOHNSON
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 2535 UNIVERSITY OF TEXAS – DALLAS **9214**
NAGW–2535/UNIV TEXAS @ DALLAS/MARS '94 CO–INVESTIG ATOR PROGRAM: STUDY OF THE DYNAMICS OF THE MARTIA
06/03/1991 – 01/31/1997 FY97: $0 Total: $275,000
Prin. Invest.: R R HODGES
Tech. Officer: HQ/W L QUAIDE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 4002 UNIVERSITY OF TEXAS – DALLAS **9215**
INVESTIGATIONS OF THE ROLE OF GRAVITY WAVES IN THE GENERATION OF EQUATORIAL BUBBLES
05/14/1994 – 04/30/1996 FY97: $0 Total: $116,000
Prin. Invest.: W B HANSON
Tech. Officer: HQ/M M MELLOTT
CASE Category: 13 – PHYSICS

NAGW 4442 UNIVERSITY OF TEXAS – DALLAS **9216**
ADAPTIVE IDENTIFICATION AND CHARACTERIZATION OF PO LAR IONIZATIO PATCHES
05/16/1995 – 04/30/1997 FY97: $0 Total: $122,074
Prin. Invest.: W R COLEY
Tech. Officer: HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4492 UNIVERSITY OF TEXAS – DALLAS **9217**
THE SPATIAL DISTRIBUTION OF IONOSPHERIC PLASMA AND FIELD STRUCTURE OF HIGH LATITUDES
05/16/1995 – 04/30/1998 FY97: $0 Total: $137,140
Prin. Invest.: R A HEELIS
Tech. Officer: HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 5104 UNIVERSITY OF TEXAS – DALLAS **9218**
MICRO TIP ARRAY MASS SPECTROMETER ION
06/11/1996 – 09/30/1997 FY97: $0 Total: $127,388
Prin. Invest.: J H HOFFMAN
Tech. Officer: HQ/T KOSTIUK, HQ/H C BRINTON
CASE Category: 11 – ASTRONOMY

NAGW 5236 UNIVERSITY OF TEXAS – DALLAS **9219**
INTERDISCIPLINARY STUDY OF PLANETARY ATMOSPHERES
10/11/1996 – 09/30/1997 FY97: $30,000 Total: $30,000
Prin. Invest.: R R HODGES
Tech. Officer: HQ/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 8 39692 UNIVERSITY OF TEXAS – DALLAS **9220**
MINIATURE MAGNETIC MASS ANALYZER
11/10/1992 – 11/09/1995 FY97: $0 Total: $89,773
Prin. Invest.: J H HOFFMAN
Tech. Officer: MSFC/C J POLLOCK, MSFC/T E MOORE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 51665 UNIVERSITY OF TEXAS – DALLAS **9221**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/08/1996 – 09/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: L TAMIL
Tech. Officer: HQ/D HOLLAND
CASE Category: 45 – ELECTRICAL ENGR

NGT 5 23 UNIVERSITY OF TEXAS – DALLAS **9222**
THE RELATIONSHIPS BETWEEN SPATIAL STRUCTURE IN THE MAGNETIC FIELD PERTURBATIONS AND THE ELECTRIC...
07/15/1996 – 07/14/1997 FY97: $22,000 Total: $44,000
Prin. Invest.: R A HELLIS
Tech. Officer: GSFC/G A SOFFEN, GSFC/R PFAFF
CASE Category: 13 – PHYSICS

NGT 5 50058 UNIVERSITY OF TEXAS – DALLAS **9223**
THEORY, MODELING, NUMERICAL SIMULATION, AND EXPERI FIBER NON-LINEARITIES IN TIME–ALIGNED WDM
08/26/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: L TAAMIL/RUIZ
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL,OTHER

NAG 2 1012 UNIVERSITY OF TEXAS – EL PASO **9224**
MONITORING SOFTWARE THROUGH INTEGRITY CONSTRAINTS
09/21/1995 – 08/31/1998 FY97: $58,064 Total: $180,487
Prin. Invest.: A Q GATES
Tech. Officer: ARC/M R LOWRY, ARC/G S LEE
CASE Category: 22 – COMPUTER SCIENCE

NAG 2 1138 UNIVERSITY OF TEXAS – EL PASO **9225**
VERIFICATION OF NASA MISSION–CRITICAL SOFTWARE WIT HOUT SACRIFICING PERFORMANCE
07/14/1997 – 06/30/1998 FY97: $111,316 Total: $111,316
Prin. Invest.: P J TELLER
Tech. Officer: ARC/LOWRY
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1380 UNIVERSITY OF TEXAS – EL PASO **9226**
IMAGE COMPRESSION BASED ON INCOMPLETE & OVERCOMPLE TE SUB-BAND DECOMPOSITIONS
11/10/1992 – 08/31/1996 FY97: $0 Total: $224,252
Prin. Invest.: S D CABRERA
Tech. Officer: LERC/D R GLOVER
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 3 1820 UNIVERSITY OF TEXAS – EL PASO **9227**
NOVEL CDS–CTDE SOLAR CELL STRUCTURES ON FLEXBILE M ETAL FOIL SUBSTRATES
04/16/1996 – 04/15/1998 FY97: $0 Total: $129,911
Prin. Invest.: V P SINGH, J C MCCLURE, G B LUSH
Tech. Officer: LERC/E B CLARK
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 5 4155 UNIVERSITY OF TEXAS – EL PASO **9228**
PACE/MSET AWARD "EXCELLENCE IN TECHNOLOGY, ENGINEE (EXCITES)
03/24/1997 – 10/31/1997 FY97: $45,897 Total: $45,897
Prin. Invest.: J HERRERA
Tech. Officer: GSFC/M STOUTSENBERGER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 6163 UNIVERSITY OF TEXAS – EL PASO **9229**
INTRODUCTORY TRAINING FOR PRE–SERVICE TEACHERS IN
08/01/1997 – 07/31/1998 FY97: $20,000 Total: $20,000
Prin. Invest.: V HARDER
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 8 1021 UNIVERSITY OF TEXAS – EL PASO **9230**
GROWTH CONDITIONS FOR SURFACE OXIDES ON ALUMINUM ALLOYS
02/08/1994 – 09/30/1996 FY97: –$1 Total: $131,502
Prin. Invest.: P W WANG, W P RUSSELL, J C MCCLURE
Tech. Officer: MSFC/M R CARRUTH JR., MSFC/B H NERREN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1056 UNIVERSITY OF TEXAS – EL PASO **9231**
A STUDY OF THE GAS PURITY SENSITY OF VAIABLE POLAR ITY PLASMA ARC WELDED ALUMINUM LITHIUM ALLOYS
05/03/1994 – 12/31/1996 FY97: $0 Total: $101,926
Prin. Invest.: J C MCCLURE
Tech. Officer: MSFC/A C NUNES, MSFC/C RUSSELL
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 8 1393 UNIVERSITY OF TEXAS – EL PASO **9232**
R/S "PLASTIC OPTICAL FIBERS FOR ELECTRO–OPTIC ALL– OPTIC AND OPTICAL SENSING APPLICATIONS"
08/18/1997 – 08/17/1998 FY97: $99,999 Total: $99,999
Prin. Invest.: C DIRK
Tech. Officer: MSFC/B PENN
CASE Category: 13 – PHYSICS

NAG 9 481 UNIVERSITY OF TEXAS – EL PASO **9233**
CHARACTERIZATION OF MATERIALS INTERACTION AND DEGRADATION IN SPACE
09/01/1990 – 12/01/1997 FY97: $0 Total: $234,605
Prin. Invest.: L E MURR
Tech. Officer: JSC/S L KOONTZ, JSC/K E HENDERSON
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 9 483 UNIVERSITY OF TEXAS – EL PASO **9234**
RELIABILITY OF DAMAGED SPACE STRUCTURES FOR VIBRATION MEASUREMENTS
10/01/1990 – 12/31/1995 FY97: –$3,108 Total: $235,467
Prin. Invest.: C M FERREGUT, R O OSEQUEDA
Tech. Officer: JSC/R A ROCHA, JSC/K E HENDERSON
CASE Category: 46 – MECHANICAL ENGR

NAG 9 755 UNIVERSITY OF TEXAS – EL PASO **9235**
NASA PHYSICS CENTER
07/27/1994 – 09/01/1997 FY97: $0 Total: $84,821
Prin. Invest.: J A LOPEZ
Tech. Officer: JSC/A POTTER
CASE Category: 13 – PHYSICS

NAG 9 757 UNIVERSITY OF TEXAS – EL PASO **9236**
INTELLIGENT CONTROL/WHICH ALGORITHM TO CHOOSE
09/01/1994 – 08/31/1996 FY97: –$2,358 Total: $62,544
Prin. Invest.: V KREINEVICH
Tech. Officer: JSC/J CARVAJAL
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 9 881 UNIVERSITY OF TEXAS – EL PASO **9237**
DEVELOPMENT OF ANALYTICAL TOOLS
08/31/1996 – 08/31/1997 FY97: $0 Total: $53,848
Prin. Invest.: D FERREGUT
Tech. Officer: HQ/R ROCHA
CASE Category: 22 – COMPUTER SCIENCE

NAG 9 920 UNIVERSITY OF TEXAS – EL PASO **9238**
BASIC STUDIES OF CDTE SOLAR CELLS
12/18/1996 – 09/30/1997 FY97: $98,981 Total: $98,981
Prin. Invest.: G LUSH
Tech. Officer: JSC/F BEIGMONTE
CASE Category: 45 – ELECTRICAL ENGR

NAGW 4536 UNIVERSITY OF TEXAS – EL PASO **9239**
EXCITES
05/24/1995 – 09/30/1997 FY97: $0 Total: $100,000
Prin. Invest.: J HERRERA
Tech. Officer: HQ/M MATEU
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG10 225 UNIVERSITY OF TEXAS – EL PASO **9240**
CONTINUOUS HAZARD TRACKING & FAILURE ANALYSIS METHODOLOGY
09/17/1997 – 09/16/1998 FY97: $99,783 Total: $99,783
Prin. Invest.: R QUINTANA
Tech. Officer: KSC/B DELIWALA
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 5 97 UNIVERSITY OF TEXAS – EL PASO **9241**
THE UNIVERSITY OF TEXAS AT EL PASO NETWORK RESOURCES AND TRAINING SITES
08/15/1995 – 08/14/1997 FY97: $550,000 Total: $1,549,999
Prin. Invest.: M KOLITSKY
Tech. Officer: GSFC/J BENNETT
CASE Category: 22 – COMPUTER SCIENCE

NCC 5 207 UNIVERSITY OF TEXAS – EL PASO **9242**
DISTANCE LEARNING STRATEGIES PROMOTING MINORITY AC AND RESOURCES
06/11/1997 – 05/31/1998 FY97: $198,748 Total: $198,748
Prin. Invest.: M A KOLITSKY
Tech. Officer: GSFC/R D EASON
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 5 209 UNIVERSITY OF TEXAS – EL PASO **9243**
PAN AMERICAN CENTER FOR EARTH AND ENVIRONMENTAL ST
07/24/1997 – 06/30/1998 FY97: $975,152 Total: $975,152
Prin. Invest.: S STARKS
Tech. Officer: GSFC/J MALONE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 8 137 UNIVERSITY OF TEXAS – EL PASO **9244**
R/S "ANALYSIS OF FRICTION STIR WELDING"
05/27/1997 – 05/26/1998 FY97: $198,992 Total: $198,992
Prin. Invest.: J MCCLURE
Tech. Officer: MSFC/J DING
CASE Category: 47 – METAL & MATERIALS ENGR

NCCW 89 UNIVERSITY OF TEXAS – EL PASO **9245**
PAN AMERICAN CENTER FOR EARTH AND ENVIRONMENTAL ST UDIES
08/10/1995 – 06/30/1997 FY97: $400,000 Total: $2,900,346
Prin. Invest.: S A STARKS
Tech. Officer: HQ/M MATEU
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 70297 UNIVERSITY OF TEXAS – EL PASO **9246**
NGT–70297/UNIV TEXAS EL PASO/GRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
08/04/1992 – 06/30/1996 FY97: $0 Total: $66,000
Prin. Invest.: J C MCCLURE
Tech. Officer: MSFC/F SIX
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 70343 UNIVERSITY OF TEXAS – EL PASO **9247**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
07/06/1993 – 11/30/1996 FY97: $0 Total: $65,400
Prin. Invest.: L E MURR
Tech. Officer: HQ/D K RUSSELL
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 70350 UNIVERSITY OF TEXAS – EL PASO **9248**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/04/1993 – 08/31/1997 FY97: $0 Total: $81,000
Prin. Invest.: K MARSAGLIA
Tech. Officer: HQ/D K RUSSELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 70354 UNIVERSITY OF TEXAS – EL PASO **9249**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/02/1993 – 08/31/1996 FY97: –$2,482 Total: $41,518
Prin. Invest.: C FERREGUT
Tech. Officer: HQ/D K RUSSELL
CASE Category: 46 – MECHANICAL ENGR

NGT 70406 UNIVERSITY OF TEXAS – EL PASO **9250**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
12/05/1994 – 12/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: R ARROWOOD
Tech. Officer: HQ/D K RUSSELL
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 90044 UNIVERSITY OF TEXAS – EL PASO **9251**
MINORITY UNDER GRADUATE RESEARCHERS PROGRAM
08/22/1991 – 08/31/1996 FY97: –$25,162 Total: $111,545
Prin. Invest.: A LOPEZ
Tech. Officer: HQ/B WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90125 UNIVERSITY OF TEXAS – EL PASO **9252**
NGT–90125/UNIV TEXAS @ EL PASO/GRADUATE STUDENT RESEARCHERS PROGRAM/UMF
11/27/1992 – 08/31/1997 FY97: $6,320 Total: $40,601
Prin. Invest.: A LOPEZ
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 70007 UNIVERSITY OF TEXAS – EL PASO **9253**
GRADUATE STUDENTS RESEARCH PROGRAM – STUDENTS: DI
09/06/1997 – 12/31/1997 FY97: $22,000 Total: $22,000
Prin. Invest.: R ARROWOOD
Tech. Officer: GSFC/STOUTSENBERGER
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 2210 UNIVERSITY OF TEXAS AT BROWNSVILLE **9254**
EXPLOITING STRUCTURE: INTRODUCTION AND MOTIVATION
02/18/1993 – 03/31/1998 FY97: $0 Total: $104,091
Prin. Invest.: Z L XU
Tech. Officer: GSFC/G E MOSIER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 9 776 UNIVERSITY OF TEXAS AT BROWNSVILLE **9255**
HISPANIC MOTHER DAUGHTER PROGRAM
03/24/1995 – 08/01/1998 FY97: $88,358 Total: $265,074
Prin. Invest.: M MANCILLAS
Tech. Officer: JSC/L ARMENDARIZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 9 801 UNIVERSITY OF TEXAS AT BROWNSVILLE **9256**
PREPARING TEACHERS TO TEACH SCI STUDENTS INCLUSIVE SETTINGS
07/28/1995 – 08/14/1998 FY97: $50,000 Total: $150,000
Prin. Invest.: R RAMIREZ, JR., K I NORMAN
Tech. Officer: JSC/L ARMENDARIZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 2 819 UNIVERSITY OF TEXAS AT SAN ANTONIO **9257**
MONOCLONAL ANTIBODIES DIRECTED AGAINST SURFACE MOL ECULES OF MULTICELL SPHEROIDS
12/15/1992 – 12/31/1995 FY97: –$33 Total: $216,558
Prin. Invest.: A O MARTINEZ
Tech. Officer: ARC/R A GRYMES
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 3 2060 UNIVERSITY OF TEXAS AT SAN ANTONIO **9258**
RESEARCH & EDUCATION IN PROBABLISTIC STRUCTURAL AN ALYSIS & RELIABILITY
07/10/1997 – 06/19/1998 FY97: $200,000 Total: $200,000
Prin. Invest.: L BOYCE
Tech. Officer: LERC/C C CHAMIS, LERC/S S PAI
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 9 773 UNIVERSITY OF TEXAS AT SAN ANTONIO **9259**
FUNDAMENTAL SKILLS INTELLIGENT TUTORING SYSTEMS PROJECT
01/27/1995 – 12/31/1997 FY97: $75,000 Total: $225,000
Prin. Invest.: R DIEM, D S KATIMS
Tech. Officer: JSC/J A ATKINSON
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 9 950 UNIVERSITY OF TEXAS AT SAN ANTONIO **9260**
TEXAS PREFRESHMAN ENGINEERING PROGRAM
07/16/1997 – 05/26/1998 FY97: $198,422 Total: $198,422
Prin. Invest.: M P BERRIOZABAL
Tech. Officer: JSC/L ARMENDARIZ
CASE Category: 21 – MATHEMATICS

NAGW 3573 UNIVERSITY OF TEXAS AT SAN ANTONIO **9261**
TEXAS PREFRESHMAN ENGINEERING PROGRAM
06/03/1993 – 05/31/1997 FY97: $0 Total: $620,504
Prin. Invest.: M BERRIOZABAL
Tech. Officer: HQ/B WHITE
CASE Category: 49 – ENGINEERING, OTHER

NAGW 4114 UNIVERSITY OF TEXAS AT SAN ANTONIO **9262**
ADVANCED PROPULSION STUDIES
08/18/1994 – 08/31/1997 FY97: $0 Total: $998,038
Prin. Invest.: L BOYCE
Tech. Officer: HQ/B L WHITE
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG10 155 UNIVERSITY OF TEXAS AT SAN ANTONIO **9263**
MULTI RESOLUTION IMAGE ANALYSIS FOR ENVIRONMENTAL MAPPING APPLICATIONS
03/27/1995 – 04/03/1998 FY97: $99,700 Total: $299,100
Prin. Invest.: M D DESAI
Tech. Officer: KSC/J C SAAER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG10 180 UNIVERSITY OF TEXAS AT SAN ANTONIO **9264**
FUNCTIONAL DEVELOPMENT IN A MODEL VESTIBULAS SYS
01/18/1996 – 01/21/1998 FY97: $189,720 Total: $351,997
Prin. Invest.: M L WIEDERHOLD
Tech. Officer: KSC/W M KNOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NGT 90047 UNIVERSITY OF TEXAS AT SAN ANTONIO **9265**
NGT–90047/UNIV TEXAS/UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/22/1991 – 08/14/1996 FY97: $0 Total: $167,668
Prin. Invest.: L VALERDE
Tech. Officer: HQ/B WHITE
CASE Category: 49 – ENGINEERING, OTHER

NGT 90261 UNIVERSITY OF TEXAS AT SAN ANTONIO **9266**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
12/19/1994 – 08/14/1996 FY97: $0 Total: $72,000
Prin. Invest.: L WILLIAMS
Tech. Officer: HQ/D K RUSSELL
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 5 90012 UNIVERSITY OF TEXAS AT SAN ANTONIO **9267**
NASA UNDERGRADUATE SCHOLAR AWARDS FOR RESEARCH (
12/19/1996 – 08/14/1998 FY97: $110,590 Total: $110,590
Prin. Invest.: L R WILLIAMS
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 5 90045 UNIVERSITY OF TEXAS AT SAN ANTONIO **9268**
USAR
02/14/1997 – 08/14/1998 FY97: $46,480 Total: $46,480
Prin. Invest.: L WILLIAMS
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

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NAG 1 1694 BRIGHAM YOUNG UNIVERSITY **9269**
A BASELINE COMPARISON OF FUNDAMENTAL APPROACHES TO MDO
02/22/1995 – 08/31/1997 FY97: $1 Total: $86,653
Prin. Invest.: R BALLING
Tech. Officer: LARC/S L PADULA
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 883 BRIGHAM YOUNG UNIVERSITY **9270**
CAPSTONE PROGRAM PROJECT
02/17/1994 – 07/31/1997 FY97: $34,000 Total: $81,000
Prin. Invest.: P CARTER, R TODD
Tech. Officer: ARC/B W WEBBON, ARC/W C LOMAX
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 5096 BRIGHAM YOUNG UNIVERSITY **9271**
HIGH RESOLUTION SPECTROSCOPY IN THE FAR AND EXTREME ULTRAVIOLET
12/02/1996 – 11/30/1997 FY97: $603,010 Total: $603,010
Prin. Invest.: D LONG
Tech. Officer: GSFC/M BALTUCK
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 2461 BRIGHAM YOUNG UNIVERSITY **9272**
MODEL BASED WIND RETRIEVAL OF WIND FIELD USING SEA SAT SCATTEROMETER DATA
07/15/1991 – 09/30/1997 FY97: $0 Total: $331,833
Prin. Invest.: D LONG
Tech. Officer: HQ/D ADAMER, HQ/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4959 BRIGHAM YOUNG UNIVERSITY **9273**
INEXPENSIVE APERTURE RADAR FOR GEOPHYSICAL RESEARCH
03/22/1996 – 09/30/1997 FY97: $0 Total: $203,968
Prin. Invest.: D LONG
Tech. Officer: HQ/M BALTUCK
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 10013 BRIGHAM YOUNG UNIVERSITY **9274**
MULTIDISCIPLINARY DESIGN AND ANALYSIS FELLOWSHIP PROGRAM
10/27/1993 – 08/31/1997 FY97: $133,750 Total: $581,674
Prin. Invest.: C D SORENSEN, S P MAGLEBY, R H TODD
Tech. Officer: HQ/G S SEIDEL, HQ/J R FACEY
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 30198 BRIGHAM YOUNG UNIVERSITY **9275**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/25/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: D LONG
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 33 – OCEANOGRAPHY

NGT 51411 BRIGHAM YOUNG UNIVERSITY **9276**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/20/1995 – 06/30/1996 FY97: $0 Total: $12,000
Prin. Invest.: J W MOODY
Tech. Officer: HQ/E SCHWARTZ
CASE Category: 13 – PHYSICS

NAG 1 1314 UNIVERSITY OF UTAH **9277**
FARS CIRRUS MEASUREMENT FOR FIRE II
07/23/1991 – 11/30/1997 FY97: $57,000 Total: $388,001
Prin. Invest.: K SASSEN
Tech. Officer: LARC/D S MCDOUGAL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1718 UNIVERSITY OF UTAH **9278**
CLOUD SCALE NUMERICAL MODELING OF THE ARCTIC BOUN DARY LAYER
04/25/1995 – 06/30/1998 FY97: $72,000 Total: $222,000
Prin. Invest.: S K KRUEGER
Tech. Officer: LARC/D S MCDOUGAL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1719 UNIVERSITY OF UTAH **9279**
RADIATIVE TRANSFER AND SATELLITE REMOTE SOUNDING O F CIRRUS CLOUDS USING FIRE II IFO DATA
04/14/1995 – 04/13/1998 FY97: –$62,000 Total: $105,600
Prin. Invest.: K N LIOU, S C OU
Tech. Officer: LARC/D S MCDOUGAL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1903 UNIVERSITY OF UTAH **9280**
APPLICATION OF FIRE PHASE I AND II RESULTS TO MODEL PARAMETERIZATIONA AND EXTENSION TO OTHER
02/18/1997 – 02/28/1998 FY97: $36,391 Total: $36,391
Prin. Invest.: G MACE
Tech. Officer: LARC/D S MCDOUGAL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 939 UNIVERSITY OF UTAH **9281**
CONTRAIL–CIRRUS STUDIES AT FARS
11/02/1994 – 03/31/1997 FY97: $0 Total: $150,386
Prin. Invest.: K SASSEN
Tech. Officer: ARC/E P CONDON, ARC/O B TOON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 1042 UNIVERSITY OF UTAH **9282**
GUIDANCE OF NONLINEAR NONMINIMUM – PHASE DYNAMIC S YSTEMS
05/01/1996 – 02/28/1998 FY97: $24,967 Total: $49,934
Prin. Invest.: S DEVASIA
Tech. Officer: ARC/G MEYER
CASE Category: 49 – ENGINEERING, OTHER

NAG 2 1106 UNIVERSITY OF UTAH **9283**
EXPERIMENTAL &~MODELING PROGRAM FOR THE FORMULATIO N OF CONCEPTUAL RELATIONSHIPS BETWEEN CONTRAIL...
01/21/1997 – 03/31/1998 FY97: $22,025 Total: $22,025
Prin. Invest.: K SASSEN
Tech. Officer: ARC/E P CONDON, ARC/S S WEGENER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2055 UNIVERSITY OF UTAH **9284**
LIMNEOTECTONICS OF THE CANADIAN SHIELD
08/05/1992 – 09/14/1996 FY97: $0 Total: $390,108
Prin. Invest.: D CURREY
Tech. Officer: GSFC/B G BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 2241 UNIVERSITY OF UTAH **9285**
VEGETATION–ATMOSPHERE CO2 AND H20 EXCHANGE PROCESS ES: STABLE ISOTOPE ANALYSES
04/08/1993 – 04/14/1998 FY97: $31,900 Total: $323,081
Prin. Invest.: J EHLERINGER
Tech. Officer: GSFC/F G HALL, GSFC/P SELLERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2678 UNIVERSITY OF UTAH **9286**
RADIATIVE AND CLIMATIC EFFECTS OF CONTRAIL CIRRUS
08/24/1994 – 02/28/1998 FY97: $65,400 Total: $223,583
Prin. Invest.: K LIOU
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3132 UNIVERSITY OF UTAH **9287**
IMGRASS RADIATION AND REMOTE SENSING PROGRAM IN SU PPORT OF BSRN
11/01/1995 – 11/14/1997 FY97: $10,000 Total: $20,000
Prin. Invest.: R PINKER, K N LIOU
Tech. Officer: GSFC/M D CHOU
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3407 UNIVERSITY OF UTAH **9288**
LIGHT SCATTERING AND REMOTE SENSING OF CIRRUS CLOU DS USING MODIS CHANNELS
09/09/1996 – 09/30/1997 FY97: $30,000 Total: $90,000
Prin. Invest.: K N LIOU
Tech. Officer: GSFC/M D KING
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3784 UNIVERSITY OF UTAH **9289**
MODELING OF CARDIOVASCULAR RESPONSE TO WEIGHTLESSN
03/15/1997 – 12/31/1997 FY97: $130,859 Total: $130,859
Prin. Invest.: K SHARP
Tech. Officer: GSFC/L CHAMBERS
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 3802 UNIVERSITY OF UTAH **9290**
DEVELOPMENT OF EARTH OCCULTATION TECHNIQUE ABOVE 1 HIGH ENERGY EMISSION FROM GAMMA-RAY BURSTS, $39,9
11/27/1996 – 11/30/1997 FY97: $59,983 Total: $59,983
Prin. Invest.: B L DINGUS
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3902 UNIVERSITY OF UTAH **9291**
ORBITING ARRAY OF WIDE-ANGLE LIGHT COLLECTORS (OWL ORBITING "EYES" TO STUDY AIR SHOWERS INITIATED BY
03/03/1997 – 02/28/1998 FY97: $60,024 Total: $60,024
Prin. Invest.: E C LOH
Tech. Officer: GSFC/J F ORMES
CASE Category: 11 – ASTRONOMY

NAG 5 4452 UNIVERSITY OF UTAH **9292**
RADIATION ANTICARCINOGENESIS BY THIAZOLIDINE PRODR
05/20/1997 – 02/28/1998 FY97: $177,867 Total: $177,867
Prin. Invest.: W SHIMMERLING
Tech. Officer: GSFC/M AVERNER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 1999 UNIVERSITY OF UTAH **9293**
MAGPIE, A MAGNETIC PASSIVE ISOTOPE EXPERIMENT
07/11/1990 – 03/31/1998 FY97: $0 Total: $757,973
Prin. Invest.: M H SALAMON
Tech. Officer: HQ/W V JONES, HQ/J C LING
CASE Category: 13 – PHYSICS

NAGW 3687 UNIVERSITY OF UTAH **9294**
INTERMOUNTAIN NETWORK AND SCIENTIFIC COMPUTATION C ENTER
09/09/1993 – 07/31/1997 FY97: $0 Total: $14,974,135
Prin. Invest.: R PUGMIRE
Tech. Officer: HQ/W C STAMPER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4338 UNIVERSITY OF UTAH **9295**
MODELING OF CARDIOVASCULAR RESPONSE TO WEIGHTLESSN ESS
03/04/1995 – 09/30/1997 FY97: $0 Total: $258,480
Prin. Invest.: M T SHARP
Tech. Officer: HQ/R J WHITE
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4914 UNIVERSITY OF UTAH **9296**
RADIATION ANTICARCINOGENESIS BY THIAZOLIDINE PRODR UGS
02/05/1996 – 10/30/1997 FY97: $0 Total: $170,641
Prin. Invest.: R T WARTERS, PH.D.
Tech. Officer: HQ/W SCHIMMERLING
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 1 189 UNIVERSITY OF UTAH **9297**
IMPROVEMENT AND APPLICATION OF THE UU RADIATION PA RAMETER-IZATION PROGRAM
05/25/1994 – 03/31/1998 FY97: $54,000 Total: $155,400
Prin. Invest.: K N LIOU, Q FU
Tech. Officer: LARC/T P CHARLOCK, LARC/B A WIELICKY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 1 256 UNIVERSITY OF UTAH **9298**
DEVELOPMENT OF PREDICTIVE CAPABILITIES FOR DAMAGE TOLERANCE IN STITCHED COMPOSITE MATERIALS
05/01/1997 – 04/30/1998 FY97: $22,800 Total: $22,800
Prin. Invest.: D O ADAMS
Tech. Officer: LARC/A T NETTLES
CASE Category. 47 – METAL & MATERIALS ENGR

NCC 2 851 UNIVERSITY OF UTAH **9299**
WASTE INCINERATION FOR RESOURCE RECOVERY IN REGENE RATIVE LIFE SUPPORT SYSTEMS
04/15/1994 – 09/30/1998 FY97: $105,485 Total: $569,049
Prin. Invest.: J S LIGHTLY, D W PERSHING
Tech. Officer: ARC/J W FISHER/R MACELROY
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 2 890 UNIVERSITY OF UTAH **9300**
DEVELOPMENT OF ON-LINE REAL-TIME ENVIRONMENTAL MONITOR FOR AIR & WATER QUALITY
03/27/1995 – 09/30/1996 FY97: $0 Total: $195,421
Prin. Invest.: D R WESTENSKOW, D CHRISTENSEN, R E BENNER
Tech. Officer: ARC/J W FISHER, ARC/R D MACELROY
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 2 5007 UNIVERSITY OF UTAH **9301**
THE IMPACT OF COCKPIT AUTOMATION ON PILOT PROFICIE NCY
10/29/1993 – 10/31/1995 FY97: $0 Total: $79,722
Prin. Invest.: R DECKER
Tech. Officer: ARC/B KANKI
CASE Category: 69 – PSYCHOLOGY, OTHER

NGT 30257 UNIVERSITY OF UTAH **9302**
GLOBAL CHANGE FELLOWSHIP AWARD
09/20/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: D CHAPMAN
Tech. Officer: HQ/M BALTUCK, HQ/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51673 UNIVERSITY OF UTAH **9303**
GRAD STUDENT RESEARCH PROGRAM
08/15/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: R SHARP
Tech. Officer: HQ/G LESANE
CASE Category: 44 – CIVIL ENGR

NGT 5 30078 UNIVERSITY OF UTAH **9304**
REMOTE SENSING OF CIRRUS CLOUDS USING MODIS AIRBOR NNELS
09/11/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: K LIOU
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50088 UNIVERSITY OF UTAH **9305**
CARDIOVASCULAR RESPONSE TO GRAVITATIONAL ACCELERAT ENT HYDRAULIC MOCK CIRCULATION SYSTEM
09/11/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: K SHARP
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 1 1871 UTAH STATE UNIVERSITY **9306**
AN EXPERIMENTAL AND NUMERICAL INVESTIGTION OF TURBULENT VOR-TEX BREADKOWN AND AIRCRAFT WAKES
10/02/1996 – 09/30/1997 FY97: $56,055 Total: $56,055
Prin. Invest.: D SPALL
Tech. Officer: LARC/T B GATSKI
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 874 UTAH STATE UNIVERSITY **9307**
TEST FLIGHT OF A NYLON SUPER–PRESSURE BALLOON IN M ARS–LIKE CONDITIONS ON EARTH
11/04/1993 – 09/30/1996 FY97: $0 Total: $84,497
Prin. Invest.: J CANTRELL
Tech. Officer: ARC/R M HABERLE, ARC/L G LEMKE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 1484 UTAH STATE UNIVERSITY **9308**
THE FLOW OF PLASMA IN THE SOLAR TERRESTRIAL ENVIRONMENT
11/26/1990 – 03/31/1998 FY97: $275,000 Total: $1,852,745
Prin. Invest.: R W SCHUNK
Tech. Officer: GSFC/T J BIRMINGHAM
CASE Category: 13 – PHYSICS

NAG 5 2043 UTAH STATE UNIVERSITY **9309**
MESOSCALE STUDY OF SURFACE HEAT FLUXES AND BOUNDAR Y LAYER PROCESSES IN A DESERT REGION
07/28/1992 – 02/14/1997 FY97: $0 Total: $345,144
Prin. Invest.: C BINGHAM
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2748 UTAH STATE UNIVERSITY **9310**
DYNAMO ELECTRIC FIELD AND CURRENTS AS DETERMINED FROM UARS WIND MEASUREMENT
10/06/1994 – 10/14/1997 FY97: $49,000 Total: $139,500
Prin. Invest.: D J CRAIN
Tech. Officer: GSFC/C H JACKMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4469 UTAH STATE UNIVERSITY **9311**
SATELLITE STUDIES OF STORM TIME MID– AND LOW–LATIT ODYNAMICS
05/21/1997 – 03/31/1998 FY97: $74,000 Total: $74,000
Prin. Invest.: D G FEJER
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 4496 UTAH STATE UNIVERSITY **9312**
CROP OPTIMIZATION USING CO2 GAS–EXCHANGE
05/06/1997 – 03/31/1998 FY97: $156,489 Total: $156,489
Prin. Invest.: B BUGBEE
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 5022 UTAH STATE UNIVERSITY **9313**
AN INVESTIGATION OF THE EFFECTS OF MESOSPHERIC AEROSOLS ON THE ODD–OXYGEN CHEM & DISTRIBUTION
04/13/1994 – 10/31/1997 FY97: $0 Total: $447,928
Prin. Invest.: P J ESPY
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 5044 UTAH STATE UNIVERSITY **9314**
AN EXPERIMENT TO STUDY SPORADIC SODIUM LAYERS IN THE EARTH'S MESOSPHERE AND LOWER THERMOSPHERE
07/28/1995 – 11/30/1997 FY97: $20,025 Total: $95,113
Prin. Invest.: D M SWENSON
Tech. Officer: GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 5046 UTAH STATE UNIVERSITY **9315**
A ROCKET INVESTIGATION OF MESOSPHERIC EDDY DIFFU– SION EFFECTS ON AIRGLOW & ODD OXYGEN CHEMISTRY
08/03/1995 – 06/30/1998 FY97: $83,824 Total: $271,756
Prin. Invest.: J C ULWICK
Tech. Officer: GSFC/P H PLESS
CASE Category: 13 – PHYSICS

NAG 5 5081 UTAH STATE UNIVERSITY **9316**
MESOSPHERE–THERMOSPHERE EMISSIONS FOR OZONE REMOTE SENS-ING (METEORS)
06/14/1996 – 05/31/1998 FY97: $148,076 Total: $289,290
Prin. Invest.: P ESPY
Tech. Officer: GSFC/L GURKIN
CASE Category: 13 – PHYSICS

NAG 9 907 UTAH STATE UNIVERSITY **9317**
DATABASE FOR GROWING PLANTS IN CONTROOLED ENVIRON.
09/19/1996 – 09/30/1997 FY97: $0 Total: $20,000
Prin. Invest.: F B SALISBRUY
Tech. Officer: JSC/D J BARTA
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 3999 UTAH STATE UNIVERSITY **9318**
"MID–LATITUDE POTENTIAL DISTRIBUTION DEFINED BY TH ERMAL PLASMA MOTIONS"
05/09/1994 – 10/31/1996 FY97: $0 Total: $124,500
Prin. Invest.: D J CRAIN
Tech. Officer: HQ/M M MELLOTT, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4057 UTAH STATE UNIVERSITY **9319**
MOLECULAR CALCULATIONS IN SUPPORT OF PLANETARY ATMOSPHERE PROGRAMS
07/19/1994 – 04/30/1997 FY97: $0 Total: $120,040
Prin. Invest.: R WATTSON
Tech. Officer: HQ/H H BRINTON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4298 UTAH STATE UNIVERSITY **9320**
ADVANCED DESIGN PROGRAM
02/14/1995 – 06/30/1996 FY97: $0 Total: $17,350
Prin. Invest.: F REDD
Tech. Officer: HQ/A S MCGEE, HQ/G JOHNSTON
CASE Category: 49 – ENGINEERING, OTHER

NAGW 4365 UTAH STATE UNIVERSITY **9321**
CROP PRODUCTION OPTIMIZATION USING CO2 GAS–EXCHANG E
03/31/1995 – 03/31/1997 FY97: $0 Total: $303,383
Prin. Invest.: B G BUGBEE
Tech. Officer: HQ/M AVERNER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4425 UTAH STATE UNIVERSITY **9322**
SATELLITE STUDIES OF STORM TIME MID AND LOW LATITU DE IONOSPHERIC ELECTRODYNAMICS
04/20/1995 – 03/31/1998 FY97: $0 Total: $139,000
Prin. Invest.: B G FEJER
Tech. Officer: HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAS 1 20467 UTAH STATE UNIVERSITY **9323**
SOUNDING OF THE ATMOSPHERE USING BROADBAND EMISSION RADIOMETRY (SABER) INSTRUMENT
03/28/1995 – 01/28/2000 FY97: $3,914,083 Total: $5,234,083
Prin. Invest.: J ULWICK, D J BAKER, R ESPLIN
Tech. Officer: LARC/M D VANEK, LARC/T C DENKINS
CASE Category: 42 – ASTRONAUTICAL ENGR

NAS 2 13659 UTAH STATE UNIVERSITY **9324**
CONDENSATE RECOVERY SYSTEM
08/23/1994 – 03/31/1998 FY97: $150,000 Total: $306,813
Prin. Invest.: G BINGHAM
Tech. Officer: ARC/A A GONZALES
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAS 3 97106 UTAH STATE UNIVERSITY **9325**
HYDROGEN ON–ORBIT STORAGE AN SUPPLY EXPERIMENT
01/24/1997 – 08/24/1997 FY97: $120,000 Total: $120,000
Prin. Invest.: J C BATTY
Tech. Officer: LERC/D W PLACHTA
CASE Category: 42 – ASTRONAUTICAL ENGR

NAS 8 37110 UTAH STATE UNIVERSITY **9326**
STUDY ENTITLED "RESEARCH ON ORBITAL PLASMA–ELECTRODYNAMICS."
05/04/1987 – 03/31/1998 FY97: $100,000 Total: $201,000
Prin. Invest.: R W SCHUNK, K W SCHUNK
Tech. Officer: MSFC/R LAKE, MSFC/B DUNCAN
CASE Category: 42 – ASTRONAUTICAL ENGR

NAS 8 97107 UTAH STATE UNIVERSITY **9327**
REMOTE SENSING AND MODELING OF URBAN LANDCOVER
01/29/1997 – 01/28/1999 FY97: $86,328 Total: $86,328
Prin. Invest.: R R GILLIES
Tech. Officer: MSFC/T MILLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 1 265 UTAH STATE UNIVERSITY **9328**
EXPERIMENTAL AND ANALYTICAL ASSESSMENT OF USING LARGE FOCAL PLANE ARRAYS AND ONBOARD DATA SELECTIO
09/30/1997 – 01/31/1998 FY97: $25,000 Total: $25,000
Prin. Invest.: G E BINGHAM, R J HUPPI
Tech. Officer: LARC/V S PARSONS, LARC/D E HINTON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 831 UTAH STATE UNIVERSITY **9329**
SEED–TO–SEED EXPERIMENT (EXPERIMENTS ON RUSSIAN SP ACE STATION MIR)
10/26/1993 – 09/30/1997 FY97: $300,000 Total: $3,206,029
Prin. Invest.: F B SALISBURY, G E BINGHAM, D L BUBENHEIM
Tech. Officer: ARC/G C JAHNS, ARC/C M WINGET
CASE Category: 55 – AGRICULTURE

NCC 2 5039 UTAH STATE UNIVERSITY **9330**
STUDY OF SUBSTRATES FOR USE IN MICROGRAVITY
03/01/1994 – 03/31/1996 FY97: $0 Total: $30,000
Prin. Invest.: G BINGHAM
Tech. Officer: ARC/G BINGHAM
CASE Category: 55 – AGRICULTURE

NCC 2 5178 UTAH STATE UNIVERSITY **9331**
POST PROCESS ANALYSIS OF V–22 IN HOVER SIMULATION
05/08/1996 – 09/16/1996 FY97: $0 Total: $5,500
Prin. Invest.: C HAILEY
Tech. Officer: ARC/R L MEAKIN
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 5 219 UTAH STATE UNIVERSITY **9332**
HOLOGRAPHIC LIDAR CONCEPTS AND APPLICATIONS
08/19/1997 – 08/14/1998 FY97: $22,820 Total: $22,820
Prin. Invest.: T D WILKERSON
Tech. Officer: GSFC/G SCHWEMMER
CASE Category: 11 – ASTRONOMY

NCC 8 121 UTAH STATE UNIVERSITY **9333**
THERMAL ION DYNAMICS EXPERIMENT (TIDE)
11/01/1996 – 04/30/1998 FY97: $105,053 Total: $105,053
Prin. Invest.: W J RAITT
Tech. Officer: MSFC/T E MOORE, MSFC/M O CHANDLER
CASE Category: 13 – PHYSICS

NCC13 18 UTAH STATE UNIVERSITY **9334**
NASA–SPONSORED VISTING INVESTIGATOR PROGRAM AFFILIATE CENTER FOR THE WESTERN UNITED STATES
09/12/1996 – 12/31/1997 FY97: $91,701 Total: $124,701
Prin. Invest.: D J BAKER
Tech. Officer: SSC/H CARR
CASE Category: 79 – SOCIAL SCIENCE, OTHER

NGT 40014 UTAH STATE UNIVERSITY **9335**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
10/04/1989 – 09/30/1997 FY97: $0 Total: $2,453,927
Prin. Invest.: F J REDD, D J BAKER
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 3 52302 UTAH STATE UNIVERSITY **9336**
GRADUATE STUDENT RESEARCH PROGRAM
07/01/1995 – 06/30/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: J R DENNISON
Tech. Officer: LERC/L SHAW
CASE Category: 13 – PHYSICS

NGT 5 40047 UTAH STATE UNIVERSITY **9337**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM
02/11/1997 – 01/31/1998 FY97: $345,000 Total: $345,000
Prin. Invest.: D BAKER
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50011 UTAH STATE UNIVERSITY **9338**
LAND COVER CHANGE IN THE GREAT BASIN
11/25/1996 – 08/31/1997 FY97: $44,000 Total: $44,000
Prin. Invest.: C CALDWELL
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT10 52609 UTAH STATE UNIVERSITY **9339**
GRADUATE STUDENT RESEARCHERS PROGRAM
04/18/1996 – 06/30/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: D L BISHOP
Tech. Officer: KSC/R WHEELER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 8 214 WEBER STATE COLLEGE **9340**
JOVE
01/09/1992 – 12/31/1996 FY97: $0 Total: $66,778
Prin. Invest.: D M VAUGHN
Tech. Officer: MSFC/F SIX
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

VERMONT

NAG 5 1668 MIDDLEBURY COLLEGE **9341**
DETAILED X-RAY IMAGES OF THE SN 1006 SUPERNOVA REM NANT
06/27/1991 – 12/31/1997 FY97: $16,000 Total: $81,000
Prin. Invest.: P F WINKLER
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 6118 MIDDLEBURY COLLEGE **9342**
CORONAL MASS EJECTIONS AND LARGE-SCALE EVOLUTION O
08/08/1997 – 09/14/1998 FY97: $43,573 Total: $43,573
Prin. Invest.: P WOLFSON
Tech. Officer: GSFC/W J WAGNER
CASE Category: 11 – ASTRONOMY

NAGW 2141 MIDDLEBURY COLLEGE **9343**
NAGW-2141/MIDDLEBURY COLLEGE/CURRENT SHEET FORMATI ON AND LOSS OF EQUILIBRIUM
08/08/1990 – 09/30/1997 FY97: $0 Total: $254,477
Prin. Invest.: R WOLFSON
Tech. Officer: HQ/J D BOHLIN, HQ/S KANE
CASE Category: 13 – PHYSICS

NAG 3 1936 UNIVERSITY OF VERMONT **9344**
DECOUPLING THE ROLE OF INERTIA AND GRAVITY ON PART ICLE DES-PERSION
08/05/1996 – 06/30/2000 FY97: $0 Total: $15,206
Prin. Invest.: K SQUIRES
Tech. Officer: LERC/T K GLASGOW
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 5 4138 UNIVERSITY OF VERMONT **9345**
MAPPING NORTHERN METHANE SOURCES AND SINKS IN THE USING RADARSAT
03/17/1997 – 12/31/1997 FY97: $47,500 Total: $47,500
Prin. Invest.: D MORRISSEY
Tech. Officer: GSFC/R H THOMAS
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAG 5 5135 UNIVERSITY OF VERMONT **9346**
EFFECTS OF A SOUNDING ROCKET FLIGHT ON DROSOPHIA- TEST BED FOR MOTILITY & METABOLISM EXPERIMENTS
04/14/1997 – 10/13/1999 FY97: $34,947 Total: $34,947
Prin. Invest.: T KELLER
Tech. Officer: GSFC/W JOHNSON
CASE Category: 13 – PHYSICS

NAG 8 1006 UNIVERSITY OF VERMONT **9347**
JOVE
12/03/1993 – 05/31/1997 FY97: $0 Total: $60,000
Prin. Invest.: Y YU
Tech. Officer: MSFC/F SIX
CASE Category: 13 – PHYSICS

NAG 8 1281 UNIVERSITY OF VERMONT **9348**
JOVE RESEARCH
01/21/1997 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: G MIRCHANDANI
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 3604 UNIVERSITY OF VERMONT **9349**
SELF-GENERATED BENDING MOMENTS IN ROOT GRAVITROPIS M
05/26/1993 – 09/01/1998 FY97: $0 Total: $45,451
Prin. Invest.: P M LINTILHAC
Tech. Officer: HQ/T W HALSTEAD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 4948 UNIVERSITY OF VERMONT **9350**
MAPING NORTHERN METHANE SOURCES AND SINKS IN THE BOREAL FOREST REGIONS USING RADARSAT
02/27/1996 – 09/01/1997 FY97: $0 Total: $95,000
Prin. Invest.: L MORRISSEY
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAGW 5026 UNIVERSITY OF VERMONT **9351**
CHARACTERIZATION OF METHANE SOURCE AND SINK AREAS IN NORTHERN ECOSYSTEMS USING SYNTHETIC APERATURE
04/11/1996 – 09/30/1997 FY97: $0 Total: $130,000
Prin. Invest.: L A MORRISSEY, G P LIVINGSTON
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 2 5196 UNIVERSITY OF VERMONT **9352**
MAPPING NORTHERN ECOSYSTEMS WITH POLDER: APPLICATI ONS FOR CIRCUMPOLAR METHANE EXCHANGE
12/05/1996 – 12/31/1998 FY97: $80,000 Total: $80,000
Prin. Invest.: D P LIVINGSTON, L A MORRISSEY
Tech. Officer: ARC/V C VANDERBILT
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 40054 UNIVERSITY OF VERMONT **9353**
NGT–40054/UNIV VERMONT/NATIONAL SPACE GRANT COLLEG E AND FELLOWSHIP PROGRAM
05/29/1992 – 09/30/1997 FY97: $0 Total: $834,000
Prin. Invest.: W D LAKIN, T S KELLER
Tech. Officer: HQ/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 60012 UNIVERSITY OF VERMONT **9354**
EPSCOR PROGRAM
08/18/1995 – 07/31/1997 FY97: $0 Total: $88,000
Prin. Invest.: T KELLER
Tech. Officer: HQ/A S MCGEE, HQ/E T SCHWARTZ
CASE Category: 59 – LIFE SCIENCE, OTHER

NGT 5 40045 UNIVERSITY OF VERMONT **9355**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA
01/24/1997 – 02/28/1998 FY97: $205,000 Total: $205,000
Prin. Invest.: W D LAKIN
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 60000 UNIVERSITY OF VERMONT **9356**
MUSCULOSKELETAL COUNTERMEASURES TO SPACEFLIGHT
09/10/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: T S KELLER/MILLER
Tech. Officer: GSFC/L CHAMBERS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 60002 UNIVERSITY OF VERMONT **9357**
BOIOMEDICAL RESPONSE OF SOFT TISSUES TO A SIMULATE MENT
09/11/1997 – 07/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: T KELLER
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

VIRGINIA

NAG 1 796 CHRISTOPHER NEWPORT UNIVERSITY **9358**
SPECTROSCOPY OF TUNABLE SOLID STATE LASER MATERIAL S
07/09/1987 – 03/31/1996 FY97: $0 Total: $764,304
Prin. Invest.: A M BUONCRISTIANI
Tech. Officer: LARC/P BROCKMAN, LARC/R V HESS
CASE Category: 13 – PHYSICS

NAG 1 1443 CHRISTOPHER NEWPORT UNIVERSITY **9359**
OPTICAL FIBER SPECTROSCOPY
06/16/1992 – 12/31/1997 FY97: $40,468 Total: $220,336
Prin. Invest.: A M BUONCRISTIANI
Tech. Officer: LARC/R S ROGOWSKI
CASE Category: 45 – ELECTRICAL ENGR

NAG 1 1641 CHRISTOPHER NEWPORT UNIVERSITY **9360**
TEACHER ENHANCEMENT INSTITUTE FOR SCIENCE, MATH & TECHNOLOGY USING PROBLEM BASED
07/21/1994 – 05/31/1998 FY97: $275,587 Total: $712,121
Prin. Invest.: R H PETERSON, B BARTELS
Tech. Officer: LARC/S E MASSENBERG, LARC/S CANRIGHT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 1 1888 CHRISTOPHER NEWPORT UNIVERSITY **9361**
THREE–DIMENSIONAL VORTEX MODELING OF AIRFRAME NOISE SOURCES
04/18/1997 – 04/17/1998 FY97: $10,000 Total: $10,000
Prin. Invest.: J E MARTIN
Tech. Officer: LARC/J C HARDIN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 8 1292 CHRISTOPHER NEWPORT UNIVERSITY **9362**
NASA/UNIV JOINT VENTURE IN SPACE SCIENCE (JOVE) FIRST YEAR FUNDING
04/11/1996 – 03/31/1998 FY97: $27,382 Total: $50,765
Prin. Invest.: D C ANYIWO
Tech. Officer: MSFC/D SIX
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 3736 CHRISTOPHER NEWPORT UNIVERSITY **9363**
CONTROLS ON METHANE EMISSIONS FROM VEGETATED WETLA NDS
09/09/1993 – 06/30/1997 FY97: $0 Total: $345,000
Prin. Invest.: G J WHITING, J CHANTON
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 1 178 CHRISTOPHER NEWPORT UNIVERSITY **9364**
SHIELDING FROM SPACE RADIATIONS NLPN 93–313
04/13/1993 – 01/31/1998 FY97: $73,029 Total: $399,758
Prin. Invest.: C K CHANG
Tech. Officer: LARC/J L SHINN, LARC/E J CONWAY
CASE Category: 13 – PHYSICS

NCC 1 204 CHRISTOPHER NEWPORT UNIVERSITY **9365**
APPLICATION OF SPECTROSCOPIC METHODS TO STUDY ATMOSPHERIC TRACE GAS CONSTITUENTS
11/23/1994 – 05/15/1998 FY97: $71,126 Total: $285,134
Prin. Invest.: A M BUONCRISTIANI
Tech. Officer: LARC/G W SACHSE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 1 52108 CHRISTOPHER NEWPORT UNIVERSITY **9366**
GRANT STUDENT RESEARCHER PROGRAM (GSRP)
06/15/1995 – 06/30/1997 FY97: $1 Total: $44,001
Prin. Invest.: C M HILS
Tech. Officer: LARC/M NAMKUNG
CASE Category: 13 – PHYSICS

NAG 1 1063 COLLEGE OF WILLIAM AND MARY **9367**
QUANTITATIVE NONDESTRUCTIVE EVALUATION OF MATERIALS AND STRUCTURES
09/26/1989 – 01/31/1997 FY97: $0 Total: $832,475
Prin. Invest.: B T SMITH
Tech. Officer: LARC/P H JOHNSTON
CASE Category: 13 – PHYSICS

NAG 1 1132 COLLEGE OF WILLIAM AND MARY **9368**
A RELIABILITY ESTIMATION SYSTEM TESTBED
04/19/1990 – 05/15/1996 FY97: –$478 Total: $245,902
Prin. Invest.: D M NICOL
Tech. Officer: LARC/D L PALUMBO
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 1 1548 COLLEGE OF WILLIAM AND MARY **9369**
DEGRADATION STUDIES ON MATRIX/FIBER REINFORCED COM POSITE MATERIALS FOR THE HIGH SPEEDRESEARCH PROG
10/21/1993 – 08/31/1997 FY97: $12,814 Total: $99,377
Prin. Invest.: R A OKWALL
Tech. Officer: LARC/P R YOUNG
CASE Category: 12 – CHEMISTRY

NAG 1 1597 COLLEGE OF WILLIAM AND MARY **9370**
TECHNOLOGIES FOR NONDESTRUCTIVE EVALUATION OF SURFACES AND THIN LAYERS
03/22/1994 – 12/31/1996 FY97: $642 Total: $412,466
Prin. Invest.: D M MANOS
Tech. Officer: LARC/K E CRAMER, LARC/W T YOST
CASE Category: 13 – PHYSICS

NAG 1 1647 COLLEGE OF WILLIAM AND MARY **9371**
THROUGH–THE–THICKNESS REINFORCED COMPOSITES
10/24/1994 – 05/31/1997 FY97: $0 Total: $49,530
Prin. Invest.: M K HINDERS
Tech. Officer: LARC/W JACKSON
CASE Category: 12 – CHEMISTRY

NAG 1 1665 COLLEGE OF WILLIAM AND MARY **9372**
OPTICAL FIBER FTIR EVANESCENT WAVE ABSORPTION SPECTROSCOPY FOR REMOTE SENSING NLPN 94–926
12/28/1994 – 12/31/1996 FY97: –$2 Total: $89,335
Prin. Invest.: D M MANOS
Tech. Officer: LARC/R ROGOWSKI
CASE Category: 13 – PHYSICS

NAG 1 1668 COLLEGE OF WILLIAM AND MARY **9373**
LASER ULTRASONIC AND THERMAL WAVE NDE
12/28/1994 – 12/31/1996 FY97: $0 Total: $164,228
Prin. Invest.: D M MANOS, M K HINDERS
Tech. Officer: LARC/R S ROGOWSKI
CASE Category: 13 – PHYSICS

NAG 1 1671 COLLEGE OF WILLIAM AND MARY **9374**
INTERFACE STRUCTURAL INTEGRITY EVALUATION USING ULTRASONIC LAMB WAVES — AIRCRAFT APPLICATION
01/20/1995 – 01/19/1998 FY97: $0 Total: $242,897
Prin. Invest.: K J SUN, D MANOS, M K HINDERS
Tech. Officer: LARC/P H JOHNSTON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 1 1746 COLLEGE OF WILLIAM AND MARY **9375**
RITE: RELIABILITY INTERFACE TOOL EXTENSION
09/11/1995 – 11/10/1996 FY97: –$60 Total: $19,941
Prin. Invest.: D M NICOL
Tech. Officer: LARC/C ELKS
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1783 COLLEGE OF WILLIAM AND MARY **9376**
ACTUATOR PLACEMENT FOR ACTIVE SOUND AND VIBERATION CONTROL
12/05/1995 – 08/15/1997 FY97: $31,510 Total: $58,396
Prin. Invest.: R K KINCAID
Tech. Officer: LARC/S L PADULA
CASE Category: 21 – MATHEMATICS

NAG 1 1814 COLLEGE OF WILLIAM AND MARY **9377**
TECHNOLOGIES FOR NDE OF SURFACES AND THIN COATINGS
03/15/1996 – 03/14/1998 FY97: $6,525 Total: $171,859
Prin. Invest.: D M MANOS
Tech. Officer: LARC/D M HEATH, LARC/K E CRAMER
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 1847 COLLEGE OF WILLIAM AND MARY **9378**
INFORMATION–ADAPTIVE IMAGE CODING AND RESTORATION
06/12/1996 – 09/30/1997 FY97: $47,953 Total: $149,953
Prin. Invest.: Z RAHMAN, S K PARK
Tech. Officer: LARC/F O HUCK, LARC/D J JOBSON
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1856 COLLEGE OF WILLIAM AND MARY **9379**
FRICTION DRAG MEASUREMENTS FOR JET ENGINE NOZZLE LINERS
07/24/1996 – 12/31/1997 FY97: $30,567 Total: $74,691
Prin. Invest.: D MANOS, D DETURRIS
Tech. Officer: LARC/J M SEINER, LARC/M K PONTON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1872 COLLEGE OF WILLIAM AND MARY **9380**
ACTUATOR/SENSOR SELECTION AND PLACEMENT FOR ACTIVE SOUND AND VIBRATION CONTROL
09/26/1996 – 10/31/1996 FY97: –$5,200 Total: $0
Prin. Invest.: R K KINCAID
Tech. Officer: LARC/S L PADULA
CASE Category: 21 – MATHEMATICS

NAG 1 1926 COLLEGE OF WILLIAM AND MARY **9381**
P–V–T PROPERTIES OF POLYMIDES AND MODEL IMIDE COMPOUNDS
05/13/1997 – 09/30/1997 FY97: $19,041 Total: $19,041
Prin. Invest.: R A ORWOLL
Tech. Officer: LARC/J A HINKLEY, LARC/T S GATES
CASE Category: 41 – AERONAUTICAL ENGNR

NAS 1 19656 COLLEGE OF WILLIAM AND MARY **9382**
PHYSICAL, MATHEMATICAL, AND COMPUTER SCIENCE RESEA RCH
08/06/1992 – 08/05/1998 FY97: $46,348 Total: $2,985,375
Prin. Invest.:, C S WELCH, M C WU
Tech. Officer: LARC/E J PRIOR, LARC/R L YANG
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 1 43 COLLEGE OF WILLIAM AND MARY **9383**
HALOE SCIENCE INVESTIGATION
07/16/1980 – 02/28/1998 FY97: $56,974 Total: $1,339,703
Prin. Invest.: D C BENNER
Tech. Officer: LARC/J PARK, LARC/J M RUSSELL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 1 80 COLLEGE OF WILLIAM AND MARY **9384**
HIGH RESOLUTION SPECTROSCOPY TO SUPPORT ATMOSPHERIC MEASUREMENTS
07/18/1983 – 03/31/1999 FY97: $172,981 Total: $1,208,447
Prin. Invest.: D C BENNER, M D VENKATARAMAN
Tech. Officer: LARC/M A SMITH, LARC/C P RINSLAND
CASE Category: 13 – PHYSICS

NCC 1 150 COLLEGE OF WILLIAM AND MARY **9385**
DEVELOPMENT OF ADVANCED POLYMERIC ADHESIVES AND FABRICATION AND EVALUATION OF COMPOSITE MATERIALS
03/08/1991 – 12/31/1997 FY97: $22,594 Total: $833,651
Prin. Invest.: R A ORWOLL
Tech. Officer: LARC/T L ST. CLAIR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 1 160 COLLEGE OF WILLIAM AND MARY **9386**
INCONGRUITY,INCONGRUITY RESOLUTION & MENTAL STATES MEASURE & MODIFICATION OF SITUATIONAL AWARENESS
09/24/1991 – 12/31/1997 FY97: $0 Total: $99,491
Prin. Invest.: P L DERKS, L S GILLIKIN
Tech. Officer: LARC/A T POPE, LARC/J R COMSTOCK
CASE Category: 69 – PSYCHOLOGY, OTHER

NCC 1 239 COLLEGE OF WILLIAM AND MARY **9387**
THE DEVELOPMENT OF MATERIALS FOR STRUCTURES AND RADIATION SHIELDING IN SPACE
07/17/1996 – 01/31/1998 FY97: $39,986 Total: $89,960
Prin. Invest.: R L KIEFER, R A ORWOLL
Tech. Officer: LARC/S A THIBEAULT
CASE Category: 12 – CHEMISTRY

NCC 1 258 COLLEGE OF WILLIAM AND MARY **9388**
ROBUST ADAPTIVE DATA ENCODING AND RESTORATION
05/22/1997 – 06/30/1998 FY97: $26,200 Total: $26,200
Prin. Invest.: S K PARK, Z RAHMAN
Tech. Officer: LARC/F O HUCK, LARC/D J JOBSON
CASE Category: 22 – COMPUTER SCIENCE

NCC 1 262 COLLEGE OF WILLIAM AND MARY **9389**
FLIGHT VALIDATION OR ATOMIC OXYGEN RESISTANT POLYMER
07/21/1997 – 07/31/1998 FY97: $18,923 Total: $18,923
Prin. Invest.: R L KIEFER, R A ORWOLL
Tech. Officer: LARC/S A THIBEAULT
CASE Category: 12 – CHEMISTRY

NGT 51258 COLLEGE OF WILLIAM AND MARY **9390**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/16/1994 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: R A ORWOLL
Tech. Officer: LARC/L EVANS
CASE Category: 12 – CHEMISTRY

NGT 70306 COLLEGE OF WILLIAM AND MARY **9391**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/14/1993 – 05/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: S FEYOCK
Tech. Officer: HQ/D K RUSSELL
CASE Category: 22 – COMPUTER SCIENCE

NGT 70381 COLLEGE OF WILLIAM AND MARY **9392**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
08/31/1994 – 07/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: S PARK
Tech. Officer: HQ/D K RUSSELL
CASE Category: 22 – COMPUTER SCIENCE

NGT 1 52105 COLLEGE OF WILLIAM AND MARY **9393**
GRADUATE STUDENT RESEARCHER PROGRAM (GSRP)
06/15/1995 – 01/31/1997 FY97: $0 Total: $32,000
Prin. Invest.: W J KESSLER
Tech. Officer: LARC/R H PATER, LARC/J J SIGH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NGT 1 52121 COLLEGE OF WILLIAM AND MARY **9394**
GRADUATE STUDENT RESEARCGER PROGRAM (GSRP)
01/10/1996 – 09/30/1996 FY97: –$1 Total: $22,000
Prin. Invest.: W R ORTON
Tech. Officer: LARC/M CANRIGHT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 1 52127 COLLEGE OF WILLIAM AND MARY **9395**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
05/22/1996 – 06/30/1998 FY97: $10,000 Total: $32,000
Prin. Invest.: P HINDERS
Tech. Officer: LARC/E I MADARAS
CASE Category: 13 – PHYSICS

NGT 1 52152 COLLEGE OF WILLIAM AND MARY **9396**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
10/30/1996 – 05/31/1997 FY97: $13,365 Total: $13,365
Prin. Invest.: S FEYOCK
Tech. Officer: LARC/R HATHAWAY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 1 52165 COLLEGE OF WILLIAM AND MARY **9397**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) TRANSFER FROM NASA HQ – NGT–332–251
05/29/1997 – 06/30/1998 FY97: $21,200 Total: $21,200
Prin. Invest.: S PORK
Tech. Officer: LARC/J R SCHIESS
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 70003 COLLEGE OF WILLIAM AND MARY **9398**
GRADUATE STUDENT RESEARCH PROGRAM – STUDENT: BEVE
08/25/1997 – 07/31/1998 FY97: $21,200 Total: $21,200
Prin. Invest.: S PARK
Tech. Officer: GSFC/M STOUTSENBERGER
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1943 EMORY & HENRY COLLEGE **9399**
HPLC CHARACTERIZATION OF PHENOL FORMALDEHYDE RESOLE RESIN USED IN FAB., OF SHUTTLE BOOSTER NOZ
06/05/1997 – 06/04/1998 FY97: $8,143 Total: $8,143
Prin. Invest.: P R YOUNG
Tech. Officer: LARC/T L ST. CLAIR
CASE Category: 12 – CHEMISTRY

NAG 2 767 ESTRN VA MED SCHL–ESTRN VA MED AUTHORITY **9400**
EFFECTS OF MICROGRAVITY ON AURELIA EPHYRA BEHAVIOR & DEVELOPMENT
03/03/1992 – 07/31/1996 FY97: –$864 Total: $444,791
Prin. Invest.: D B SPANGENBERG
Tech. Officer: ARC/C M WINGET, ARC/R W BALLARD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG10 178 ESTRN VA MED SCHL–ESTRN VA MED AUTHORITY **9401**
ROLE OF THYROXINE IN SPACE DEVELOPED JELLYFISH
09/11/1995 – 09/17/1997 FY97: $0 Total: $216,781
Prin. Invest.: D SPANGENBERG
Tech. Officer: KSC/W M KNOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 1 1929 GEORGE MASON UNIVERSITY **9402**
NETWORK COMPUTING IN ENGINEERING DESIGN
05/29/1997 – 12/31/1997 FY97: $40,000 Total: $40,000
Prin. Invest.: T ARCISZEWSKI
Tech. Officer: LARC/J J REHDER
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2025 GEORGE MASON UNIVERSITY **9403**
HIGH–ENERGY EMISSION FROM HOT ACCRETION DISKS IN A CTIVE GALACTIC NUCLEI
07/17/1992 – 05/31/1996 FY97: $0 Total: $161,283
Prin. Invest.: M KAFATOS
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2360 GEORGE MASON UNIVERSITY **9404**
EUVE OBSERV. OF THE SYMBIOTIC STAR R AQUARII 2) MO RPHOLOGY OF THE LOCAL H I VOID AND THE IONIZATION
08/30/1993 – 07/31/1996 FY97: $0 Total: $144,305
Prin. Invest.: M KAFATOS
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 2652 GEORGE MASON UNIVERSITY **9405**
HIGH PERFORMANCE COMPUTING RESEARCH
07/06/1994 – 10/14/1997 FY97: $212,657 Total: $1,159,656
Prin. Invest.: R LOHNER
Tech. Officer: GSFC/J R FISCHER, GSFC/S T ZALESAK
CASE Category: 13 – PHYSICS

NAG 5 2710 GEORGE MASON UNIVERSITY **9406**
CONTINUING THE SEARCH FOR GRAVITATIONAL LENSING ECHOES IN BATSE DATA
08/26/1994 – 05/31/1997 FY97: $0 Total: $90,200
Prin. Invest.: R J NEMIROFF
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2737 GEORGE MASON UNIVERSITY **9407**
SPECTRAL PROPERTIES OF X–RAY AND GAMMA RA SOURCES
09/27/1994 – 01/31/1996 FY97: $0 Total: $103,844
Prin. Invest.: M KAFATOS, L TITARCHUK
Tech. Officer: GSFC/J P NORIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2894 GEORGE MASON UNIVERSITY **9408**
OSSE OBSERVATIONS OF BLAZARS
02/14/1995 – 08/31/1996 FY97: $0 Total: $16,827
Prin. Invest.: M KAFATOS, R C HARTMAN
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2897 GEORGE MASON UNIVERSITY **9409**
DESIGN AND VISUALIZATION OF INTERACTIVE MULTIMEDIA PRODUCTS FOR SCIENCE EDUCATION
02/28/1995 – 02/29/1996 FY97: –$2,448 Total: $53,494
Prin. Invest.: B MONES–HATTAL
Tech. Officer: GSFC/A F HASLER, GSFC/A J NEGRI
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3086 GEORGE MASON UNIVERSITY **9410**
VIRTUAL DOMAIN APPLICATION USAGE OF EARTH OBSERVING DATA AND ECS PROTOTYPING
10/05/1995 – 06/30/1998 FY97: $168,874 Total: $337,090
Prin. Invest.: M KAFATOS
Tech. Officer: GSFC/H RAMPRIYAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3090 GEORGE MASON UNIVERSITY **9411**
SPECTRAL PROPERTIES OF BLACK HOLE CANDIDATES
10/05/1995 – 10/14/1996 FY97: $0 Total: $55,000
Prin. Invest.: L TITARCHUK
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3139 GEORGE MASON UNIVERSITY **9412**
A PROGRAM TO STUDY GALACTIC CENTER FOR HIGH–ENERGY GAMMA RAYS
10/31/1995 – 11/14/1996 FY97: $0 Total: $10,850
Prin. Invest.: L OZERNOY, J R MATTOX
Tech. Officer: GSFC/J P NORRIS, GSFC/J ORMES
CASE Category: 11 – ASTRONOMY

NAG 5 3240 GEORGE MASON UNIVERSITY **9413**
MONITORING HARD–TAILS OF LMC X–3 AND LMC X–1 AND H ARVESTING X–RAY BURSTS FROM THE GALACTIC CENTER..
05/29/1996 – 11/30/1997 FY97: $0 Total: $42,747
Prin. Invest.: L TITARCHUK
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3242 GEORGE MASON UNIVERSITY **9414**
THE ROLE OF TURBULENCE IN HELIOSPHERIC
05/21/1996 – 05/31/1997 FY97: $0 Total: $38,331
Prin. Invest.: A DEANE
Tech. Officer: GSFC/M L GOLDSTEIN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 3387 GEORGE MASON UNIVERSITY **9415**
MICROWAVE TARGET REFLECTION STUDY
09/05/1996 – 12/31/1996 FY97: $0 Total: $5,923
Prin. Invest.: M KAFATOS
Tech. Officer: GSFC/R SHAFER
CASE Category: 11 – ASTRONOMY

NAG 5 3408 GEORGE MASON UNIVERSITY **9416**
THE ACCRETION DISK CORONA SOURCE 4U1822–37
09/09/1996 – 03/14/1998 FY97: $0 Total: $38,272
Prin. Invest.: L TITARCHUK
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3701 GEORGE MASON UNIVERSITY **9417**
MULTIFREQUENCY AND EUVE OBSERVATIONS OF THE UNUSUA BLAZAR MKN 421
01/24/1997 – 01/31/1998 FY97: $5,500 Total: $5,500
Prin. Invest.: M KAFATOS
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 3898 GEORGE MASON UNIVERSITY **9418**
AN EXTENDED OBSERVATION OF BLAZAR 3C 279
02/11/1997 – 02/14/1998 FY97: $4,675 Total: $4,675
Prin. Invest.: M KAFATOS
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 4140 GEORGE MASON UNIVERSITY **9419**
MULTISENSOR MAPPING OF AFRICAN SETTLEMENTS AND REF
04/12/1997 – 12/31/1997 FY97: $51,678 Total: $51,678
Prin. Invest.: B HAACK
Tech. Officer: GSFC/R H THOMAS
CASE Category: 76 – SOCIOLOGY

NAG 5 4727 GEORGE MASON UNIVERSITY **9420**
SIMULATION STUDIES OF THE POLAR AURORA, PLASMA CON SYSTEMS USING ISTP–GGS DATA
06/27/1997 – 06/30/1998 FY97: $80,000 Total: $80,000
Prin. Invest.: D A FEDDER
Tech. Officer: GSFC/J GREBOWSKY
CASE Category: 13 – PHYSICS

NAG 5 4868 GEORGE MASON UNIVERSITY **9421**
SOLVING COMBINATIONAL PROBLEMS ON LOOSELY COUPLED
06/26/1997 – 06/30/1998 FY97: $62,733 Total: $62,733
Prin. Invest.: P WANG
Tech. Officer: GSFC/W CAMPBELL
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 4965 GEORGE MASON UNIVERSITY **9422**
ENERGY SPECTRA–FLUCTUATION SPECTRA CORRELATIONS IN OBJECTS
07/15/1997 – 06/30/1998 FY97: $10,000 Total: $10,000
Prin. Invest.: L TITARCHUK
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 6089 GEORGE MASON UNIVERSITY **9423**
EVOLVING SCIENCE AND TECHNOLOGY POLICY: A SPACE SC
08/13/1997 – 01/31/1998 FY97: $95,000 Total: $95,000
Prin. Invest.: D F CIOFFI
Tech. Officer: GSFC/L J KALUZIENSKI
CASE Category: 13 – PHYSICS

NAGW 4962 GEORGE MASON UNIVERSITY **9424**
EVOLVING SCIENCE AND TECHNOLOGY POLICY
02/24/1996 – 09/30/1997 FY97: $0 Total: $90,000
Prin. Invest.: D F CIOFFI
Tech. Officer: HQ/L J KALUZIRNSKI
CASE Category: 11 – ASTRONOMY

NAGW 4970 GEORGE MASON UNIVERSITY **9425**
MULTISENSOR MAPPING OF AFRICAN SETTLEMENTS AND REF UGEE CAMPS
02/24/1996 – 05/31/1997 FY97: $0 Total: $18,707
Prin. Invest.: B HAACK
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 76 – SOCIOLOGY

NCC 5 52 GEORGE MASON UNIVERSITY **9426**
A COLLABORATION BETWEEN GEORGE MASON UNIVERSITY AN D NASA FOR THE STUDY OF GAMMA RAY ASTROPHYSICS
06/22/1993 – 06/30/1996 FY97: $0 Total: $278,827
Prin. Invest.: M KAFATOS
Tech. Officer: GSFC/J P NORRIS
CASE Category: 13 – PHYSICS

NCC 5 143 GEORGE MASON UNIVERSITY **9427**
EARTH SYSTEM SCIENCE DATA SUPPORT
07/15/1996 – 06/14/1998 FY97: $831,904 Total: $985,904
Prin. Invest.: M KAFATOS
Tech. Officer: GSFC/P CHAN
CASE Category: 11 – ASTRONOMY

NGT 30330 GEORGE MASON UNIVERSITY **9428**
GLOBAL CHANGE FELLOWSHIP AWARD
09/12/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: M KUFATOS
Tech. Officer: HQ/A J TUYAHOV, HQ/G ASRAR
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NGT 5 30101 GEORGE MASON UNIVERSITY **9429**
THIRD YEAR FUNDING: AN ARCHITECTURAL STUDY OF EOS INTER-FACE/N. NADA
09/15/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: M KUFATOS
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 5 93 HAMPDEN–SYDNEY COLLEGE **9430**
ANALYSIS OF DATA FROM THE ENERGETIC GAMMA–RAY EXPERIMENT TELESCOPE ON THE COMPTON GAMMA–RAYOBS.
07/03/1995 – 08/14/1997 FY97: $0 Total: $120,798
Prin. Invest.: D A KNIFFEN
Tech. Officer: GSFC/C E FICHTEL
CASE Category: 11 – ASTRONOMY

NAG 1 1185 HAMPTON UNIVERSITY **9431**
THE AMERICAN INDIAN EDUCATION OPPORTUNITIES PROGRAM
09/13/1990 – 09/30/1998 FY97: $109,250 Total: $630,591
Prin. Invest.: P F MOLIN, D D VENABLE
Tech. Officer: LARC/S E MASSENBERG
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 1 1636 HAMPTON UNIVERSITY **9432**
INVESTIGATION OF NOX REMOVAL FROM SMALL ENGINE EXHAUST
08/03/1994 – 08/31/1998 FY97: $49,999 Total: $221,255
Prin. Invest.: J F AKYURTLU
Tech. Officer: LARC/G B NORTHAM
CASE Category: 43 – CHEMICAL ENGR

NAG 1 1742 HAMPTON UNIVERSITY **9433**
ELECTRORHEOLOGICAL FLUIDS – AEROSPACE APPLICATIONS NLPN 95–104
07/31/1995 – 09/30/1997 FY97: $74,998 Total: $183,228
Prin. Invest.: A C SMITH, D S PARMAR
Tech. Officer: LARC/J J SINGH, LARC/H K HOLMES
CASE Category: 13 – PHYSICS

NAG 1 1765 HAMPTON UNIVERSITY **9434**
DEVELOPMENT OF LASER MATERIALS FOR LIDAR SYSTEMS
10/20/1995 – 10/19/1997 FY97: $165,001 Total: $239,592
Prin. Invest.: D A TEMPLE, S C MATHAR, D LYONS
Tech. Officer: LARC/J C BARNES, LARC/N P BARNES
CASE Category: 49 – ENGINEERING, OTHER

NAG 1 1789 HAMPTON UNIVERSITY **9435**
NEW NASA RESEARCH GRANT
01/31/1996 – 08/30/1997 FY97: $0 Total: $92,184
Prin. Invest.: K MAUNG
Tech. Officer: LARC/MAUNG
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1834 HAMPTON UNIVERSITY **9436**
HAMPTON UNIVERSITY AEROSCIENCE CENTER
05/03/1996 – 10/31/1998 FY97: $400,000 Total: $700,000
Prin. Invest.: C REAVES
Tech. Officer: LARC/S E MASSENBERG
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1835 HAMPTON UNIVERSITY **9437**
START UP RESEARCH EFFORT IN FLUID MECHANICS MY 1/3
05/02/1996 – 05/31/1999 FY97: $100,000 Total: $175,000
Prin. Invest.: S WHITE, A G MIAMRE
Tech. Officer: LARC/J M SEINER, LARC/J C HARDIN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1902 HAMPTON UNIVERSITY **9438**
LANGLEY AEROSCIENCE RESEARCH SUMMER SCHOLARS PROGRAM
02/14/1997 – 05/30/1998 FY97: $690,100 Total: $690,100
Prin. Invest.: C W LOWE
Tech. Officer: LARC/R A HATHAWAY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 1 1936 HAMPTON UNIVERSITY **9439**
MIXING, NOISE, AND THRUST BENEFITS USING CORRU– GATED DESIGNS
05/27/1997 – 05/31/1998 FY97: $180,000 Total: $180,000
Prin. Invest.: S G WHITE, JR., M M GILINSKY, NONE
Tech. Officer: LARC/J M SEINER, LARC/M K PONTON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1941 HAMPTON UNIVERSITY **9440**
CHARACTERIZATION OF MOLECULAR INTERACTIONS AT METAL/POLYMER COMPOSITE SURFACES AND INTERPHASES
05/30/1997 – 05/31/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: J C WILLIAMS
Tech. Officer: LARC/T L ST. CLAIR, LARC/S H LOWTHER
CASE Category: 12 – CHEMISTRY

NAG 1 1947 HAMPTON UNIVERSITY **9441**
CONCEPTS FOR ATMOSPHERIC SCIENCE EDUCATION (CASE)
06/17/1997 – 06/30/1998 FY97: $180,395 Total: $180,395
Prin. Invest.: M P MCCORMICK, J M RUSSELL,III
Tech. Officer: LARC/L R POOLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1949 HAMPTON UNIVERSITY **9442**
DEVELOPMENT OF A PORTABLE, GROUND BASED OZONE LIDAR INSTRUMENT FOR TROPOSPHERIC OZONE
06/20/1997 – 06/30/1998 FY97: $180,000 Total: $180,000
Prin. Invest.: T H CHYBA, T ZENKER
Tech. Officer: LARC/J FISHMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1963 HAMPTON UNIVERSITY **9443**
INVESTIGATIONS OF TROPICAL ATMOSPHERIC RADIATIVE ENERGY BALANCE USING CERS AND TRMM DATA
09/03/1997 – 09/30/1998 FY97: $90,000 Total: $90,000
Prin. Invest.: B LIN
Tech. Officer: LARC/B A WIENCKI
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 3 1720 HAMPTON UNIVERSITY **9444**
DISTRIBUTED BRAGG REGION SENSORS WITH AEROPSACE AP PLICATIONS
02/28/1995 – 02/27/1998 FY97: $75,000 Total: $225,000
Prin. Invest.: R LYONS
Tech. Officer: LERC/G ADAMOVSKY
CASE Category: 13 – PHYSICS

NAG 3 1792 HAMPTON UNIVERSITY **9445**
PARALLELIZATION OF ROCKET ENGINE SIMULATOR SOFTWAR E
10/19/1995 – 10/18/1998 FY97: $97,870 Total: $199,955
Prin. Invest.: D CEZZAR
Tech. Officer: LERC/D N NOGA, LERC/K J DAVIDIAN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 2033 HAMPTON UNIVERSITY **9446**
NEW HARDWARE FOR LASER & SURFACE LIGHT SCATTERING SUPPLEMENTAL FIBER OPTIC DEVICES
04/09/1997 – 09/15/1997 FY97: $25,000 Total: $25,000
Prin. Invest.: D R LYONS, H HELMKEN
Tech. Officer: LERC/M B MEYER
CASE Category: 13 – PHYSICS

NAG 3 2034 HAMPTON UNIVERSITY **9447**
HIGH TEMPERATURE FIBER OPTICS SENSOR SYSTEM FOR PL UME INPINGEMENT STUDIES
04/09/1997 – 11/30/1997 FY97: $40,001 Total: $40,001
Prin. Invest.: D R LYONS
Tech. Officer: LERC/S R BULLOCK
CASE Category: 13 – PHYSICS

NAG 3 2059 HAMPTON UNIVERSITY **9448**
OPTICAL STRAIN GAUGES FOR PLUME IMPINGEMENT STUDIE S
07/10/1997 – 06/24/1999 FY97: $199,191 Total: $199,191
Prin. Invest.: D R LYONS
Tech. Officer: LERC/E J PENCIL
CASE Category: 13 – PHYSICS

NAG 4 12 HAMPTON UNIVERSITY **9449**
DEVELOP ULTRASONIC & FABRY–PEROT INTERFEROMETER SYSTEM FOR AGING AIRCRAFT STRUCTURES
12/13/1994 – 12/31/1997 FY97: $74,959 Total: $200,068
Prin. Invest.: A SMITH, M N ABEDIN
Tech. Officer: DFRC/K GUPTA, DFRC/E J COX
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 6296 HAMPTON UNIVERSITY **9450**
HAMPTON UNIVERSITY – OPTICAL RADIATION IN ATMOSPHE
09/19/1997 – 08/31/1998 FY97: $74,988 Total: $74,988
Prin. Invest.: D A TEMPLE
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 1340 HAMPTON UNIVERSITY **9451**
FOR RESEARCH "FIBER OPTIC SENSOR COMPONENT AND SYS FOR SMART MATERIALS & STRUCTURES UNDER THE DIR...
04/17/1997 – 04/16/1998 FY97: $100,000 Total: $100,000
Prin. Invest.: D R LYONS
Tech. Officer: MSFC/S NASH–STEVENSON, MSFC/A C BEAN
CASE Category: 49 – ENGINEERING,OTHER

NAGW 2929 HAMPTON UNIVERSITY **9452**
THE RESEARCH CENTER FOR OPTICAL PHYSICS
02/19/1992 – 12/31/1996 FY97: $1,742,086 Total: $7,555,330
Prin. Invest.: D TEMPLE
Tech. Officer: HQ/B L WHITE, HQ/P SAKIMOTO
CASE Category: 13 – PHYSICS

NAGW 4322 HAMPTON UNIVERSITY **9453**
HAMPTON ENGINEERING SCHOLARS PROGRAM
03/22/1995 – 01/31/1996 FY97: $0 Total: $88,804
Prin. Invest.: A A ADEYIGA
Tech. Officer: HQ/MA JONES
CASE Category: 49 – ENGINEERING, OTHER

NAGW 4756 HAMPTON UNIVERSITY **9454**
INFORMATION CONTENT IMPROVEMENT BY HYPER SPECTRAL IMAGER–IMPACT ON CHESAPEAKE BAY
09/28/1995 – 07/31/1996 FY97: $0 Total: $149,965
Prin. Invest.: B ADESANVA
Tech. Officer: HQ/B L WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5171 HAMPTON UNIVERSITY **9455**
PACE/MSET PROGRAM
10/25/1996 – 09/30/1997 FY97: $100,000 Total: $100,000
Prin. Invest.: A OLADIPUPO
Tech. Officer: HQ/B WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG13 44 HAMPTON UNIVERSITY **9456**
INFORMATION CONTENT IMPROVEMENT BY HYPER SPECTRAL IMAGER
08/01/1995 – 01/09/1998 FY97: $137,960 Total: $137,960
Prin. Invest.: B A ADESENYA
Tech. Officer: SSC/A JOYCE
CASE Category: 33 – OCEANOGRAPHY

NAS 1 19935 HAMPTON UNIVERSITY **9457**
RESEARCH IN AIRWAY SCI, ARCH, & PHYS
01/29/1993 – 01/28/1999 FY97: $363,519 Total: $3,656,475
Prin. Invest.: N
Tech. Officer: LARC/R L YANG;, LARC/E J PRIOR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAS 1 20444 HAMPTON UNIVERSITY **9458**
EDUCATIONAL OUTREACH FOR NASA SCIENCES AND APPLICATIONS
12/19/1994 – 12/19/1997 FY97: $856,340 Total: $2,336,396
Prin. Invest.: W TINSLEY
Tech. Officer: LARC/L B GARRETT
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAS 1 97042 HAMPTON UNIVERSITY **9459**
PRINCIPAL INVESTIGATOR SERVICES TO SUPPORT SAGE II AND III, SABER, HALOE, LITE AND LIDAR PROGRAMS.
09/29/1997 – 09/30/2002 FY97: $45,000 Total: $45,000
Prin. Invest.: P MCCORMICK
Tech. Officer: LARC/R L DUNCAN/*
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 1 214 HAMPTON UNIVERSITY **9460**
INTERPRETATION OF LIDAR AND SATELLITE DATA SETS US ING A GLOBAL PHOTOCHEMICAL MODEL
06/29/1995 – 06/29/1998 FY97: $79,363 Total: $222,393
Prin. Invest.: T ZENKER
Tech. Officer: LARC/J FISHMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 1 215 HAMPTON UNIVERSITY **9461**
LASER RESEARCH FOR TROPOSPHERIC WATER VAPOR MEASUREMENTS
08/15/1995 – 08/14/1998 FY97: $0 Total: $83,093
Prin. Invest.: T H CHYBA
Tech. Officer: LARC/E J CONWAY, LARC/N S HIGDON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 1 231 HAMPTON UNIVERSITY **9462**
ADVANCED ELECTROMAGNIC INTERFERENCE AND RADIATION RESEARCH
06/13/1996 – 08/04/1998 FY97: $104,087 Total: $144,087
Prin. Invest.: A O OLADIPUPO, C J REDDY
Tech. Officer: LARC/F D BECK, LARC/C R COCKRELL
CASE Category: 45 – ELECTRICAL ENGR

NCC 1 242 HAMPTON UNIVERSITY **9463**
RADIATION TRANSPORT AND SHIELDING FOR SPACE EXPLORATION AND HIGH-SPEED FLIGHT TRANSPORTATION
08/19/1996 – 05/31/1998 FY97: $80,000 Total: $132,000
Prin. Invest.: K M MAUNG
Tech. Officer: LARC/F A CUCINOTTA, LARC/J W WILSON
CASE Category: 13 – PHYSICS

NCC 1 251 HAMPTON UNIVERSITY **9464**
RESEARCH CENTER FOR OPTICAL PHYSICS MY 1/5
03/18/1997 – 12/31/1997 FY97: $1,000,000 Total: $1,000,000
Prin. Invest.: D A TEMPLE
Tech. Officer: LARC/R HATHAWAY
CASE Category: 13 – PHYSICS

NGT 1 52122 HAMPTON UNIVERSITY **9465**
NASA-ASEE SUMMER FACULTY FELLOWSHIP PROGRAM FORMALLY NASA HEADQUARTERS NGT-47-020-800
05/06/1996 – 04/02/1998 FY97: $0 Total: $606,000
Prin. Invest.: D SPENCER
Tech. Officer: LARC/R HATHAWAY, LARC/E PRIOR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 1 52148 HAMPTON UNIVERSITY **9466**
GRADUATE STUDENT RESEARCH PROGRAM (GSRP)
07/26/1996 – 05/31/1998 FY97: $0 Total: $22,000
Prin. Invest.: L J MORELL, C S GAYLE
Tech. Officer: LARC/J W WILSON
CASE Category: 13 – PHYSICS

NGT47 20800 HAMPTON UNIVERSITY **9467**
SUMMER FACULITY FELLOWSHIP PROGRAM IN RESEARCH
01/01/1982 – 03/31/1996 FY97: $0 Total: $3,085,395
Prin. Invest.: J W SPENCER
Tech. Officer: HQ/A S MCGEE, HQ/E T SCHWARTZ
CASE Category: 49 – ENGINEERING, OTHER

NAG 1 1802 JAMES MADISON UNIVERSITY **9468**
LARGE EDDY SIMULATION OF A SUBSONIC AXISYMMETRIC JET
02/01/1996 – 10/04/1997 FY97: $25,883 Total: $51,781
Prin. Invest.: C D PRUETT
Tech. Officer: LARC/K R MEADOWS
CASE Category: 21 – MATHEMATICS

NAG 1 1910 JAMES MADISON UNIVERSITY **9469**
THERMAL STRUCTURE AND MATERIALS TESTING LABORATORY (T-SAMTL)
03/18/1997 – 03/31/1998 FY97: $75,000 Total: $75,000
Prin. Invest.: A A TEATE
Tech. Officer: LARC/A TEATE
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 5 6166 JAMES MADISON UNIVERSITY **9470**
COLLEGE OF INTEGRATED SCIENCE & TECHNOLOGY (CISAT) CONDUCT PRE-SERVICE TEACHER ENHANCEMENT WORKSHOP.
08/01/1997 – 07/31/1998 FY97: $20,000 Total: $20,000
Prin. Invest.: J BARNES
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 1 1836 LONGWOOD COLLEGE **9471**
DEV OF IMPROVED ANALYTICAL METHODS FOR THE ANALYSIS OF BRIDGMAN GROWN SEMICONDUCTOR
05/20/1996 – 05/19/1998 FY97: $29,009 Total: $85,139
Prin. Invest.: P BARBER
Tech. Officer: LARC/A L FRIPP
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 1 1432 NORFOLK STATE UNIVERSITY **9472**
DEVELOPMENT OF LABORATORY EXPERIMENTS FOR ENGINEERING MATERIALS, SCIENCE, AND TECHNOLOGY
04/23/1992 – 03/31/1998 FY97: $34,494 Total: $129,495
Prin. Invest.: J A JACOBS
Tech. Officer: LARC/J E GARDNER, LARC/R L YANG
CASE Category: 49 – ENGINEERING, OTHER

NAG 1 1453 NORFOLK STATE UNIVERSITY **9473**
THE GROWTH, SYNTHESIS, AND SPECTROSCOPIC CHARACTERIZATION OF MATERIALS – NLPN 92-207R
09/11/1992 – 09/30/1998 FY97: $204,500 Total: $1,244,976
Prin. Invest.: L MATTIX, H R RIES
Tech. Officer: LARC/P R YOUNG, LARC/N BARNES
CASE Category: 12 – CHEMISTRY

NAG 1 1705 NORFOLK STATE UNIVERSITY **9474**
PRE-SERVICE TEACHER CONFERENCE
03/27/1995 – 05/31/1998 FY97: $172,259 Total: $394,509
Prin. Invest.: E WITTY
Tech. Officer: LARC/R HATHAWAY, LARC/E PRIOR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 1 1937 NORFOLK STATE UNIVERSITY **9475**
THE SCIENCE AND MATH FOR EVERYONE PROJECT MY 1/2
05/28/1997 – 05/31/1998 FY97: $180,000 Total: $180,000
Prin. Invest.: M NEWSOME
Tech. Officer: LARC/M CANRIGHT, LARC/E PRIOR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 1 1944 NORFOLK STATE UNIVERSITY **9476**
VISUALIZATION OF ATMOSPHERIC WATER VAPOR DATA FOR SAGE
06/09/1997 – 06/08/1998 FY97: $97,212 Total: $97,212
Prin. Invest.: W J RODRIGUEZ
Tech. Officer: LARC/W P CHU
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1948 NORFOLK STATE UNIVERSITY **9477**
RURAL OUTREACH PROGRAM
06/19/1997 – 06/30/1998 FY97: $180,000 Total: $180,000
Prin. Invest.: C COLEMAN
Tech. Officer: LARC/S CANRIGHT, LARC/E PRIOR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 1 1967 NORFOLK STATE UNIVERSITY **9478**
NASA SDB DATA BASE DEVELOPMENT
09/15/1997 – 09/14/1998 FY97: $41,000 Total: $41,000
Prin. Invest.: J BOYD
Tech. Officer: LARC/R HATHAWAY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 3 1371 NORFOLK STATE UNIVERSITY **9479**
AN NMR STUDY OF MICROVOIDS WATER-SOAKED EPOXY POLY MERS
10/01/1992 – 11/07/1996 FY97: $0 Total: $273,447
Prin. Invest.: L MATTIX
Tech. Officer: LERC/M A MEADOR
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 5 4962 NORFOLK STATE UNIVERSITY **9480**
SUMMER WORKSHOP PROG. TO PROVIDE EMERGING EDUCATOR & KNOWLEDGE TO UTILIZE IN CLASSROOM CURR. MATERIA
06/25/1997 – 06/30/1998 FY97: $19,650 Total: $19,650
Prin. Invest.: S CHAUNDHARY
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6298 NORFOLK STATE UNIVERSITY **9481**
NORFOLK STATE UNIVERSITY RESEARCH EXPERIENCE IN EA
09/15/1997 – 08/31/1998 FY97: $78,409 Total: $78,409
Prin. Invest.: W J RODRIGUEZ
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 1 200 NORFOLK STATE UNIVERSITY **9482**
COOPERATIVE PROGRAM FOR RESEARCH AND CURRICULUM DEVELOPMENT IN EARTH SYSTEM SCIENCE — MY1/3
09/27/1994 – 12/31/1997 FY97: $247,000 Total: $714,923
Prin. Invest.: S R CHAUDURY, T MARSHALL-BRADLEY
Tech. Officer: LARC/R HATHAWAY, LARC/E PRIOR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 90160 NORFOLK STATE UNIVERSITY **9483**
EXPANDING CHROME CLUBS
05/05/1993 – 08/31/1997 FY97: $0 Total: $335,436
Prin. Invest.: K C HARVEY
Tech. Officer: HQ/B WHITE
CASE Category: 49 – ENGINEERING, OTHER

NGT 1 52175 NORFOLK STATE UNIVERSITY **9484**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
09/03/1997 – 09/02/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: H R RIES
Tech. Officer: LARC/J O SIMPSON, LARC/J A HINKLEY
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 439 OLD DOMINION UNIVERSITY **9485**
POTENTIAL USE OF AUTOMATIC PROGRAMMING TECHNOLOGY IN THE PRODUCTION OF ULTRA-RELIABLE COMPUTING SYST
01/10/1984 – 06/30/1997 FY97: $40,000 Total: $955,026
Prin. Invest.: C D WILD, S ZEIL
Tech. Officer: LARC/D E ECKHARDT
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 648 OLD DOMINION UNIVERSITY **9486**
UNSTEADY HYBRID VORTEX TECHNIQUE FOR TRANSONIC VOR TEX FLOWS AND FLUTTER APPLICATIONS
02/20/1986 – 11/30/1997 FY97: $35,001 Total: $628,349
Prin. Invest.: O A KANDIL
Tech. Officer: LARC/J B MALONE, LARC/W WHITLOW
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 858 OLD DOMINION UNIVERSITY **9487**
PARALLEL PROCEDURES FOR STATICS, EIGENVALUE ANALYS IS AND STRUCTURAL DYNAMICS
02/24/1988 – 12/31/1997 FY97: $64,001 Total: $491,474
Prin. Invest.: D T NGUYEN
Tech. Officer: LARC/O O STORAASLI, LARC/S BOSTIC
CASE Category: 44 – CIVIL ENGR

NAG 1 908 OLD DOMINION UNIVERSITY **9488**
EXTREMELY HIGH DATA-RATE, RELIABLE NETWORK SYSTEMS RESEARCH
09/02/1988 – 08/15/1998 FY97: $17,906 Total: $159,335
Prin. Invest.: K MALY
Tech. Officer: LARC/N D MURRAY/W H BRYANT
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1056 OLD DOMINION UNIVERSITY **9489**
LARGE ANGLE MAGNETIC SUSPENSION TEST FIXTURE
08/29/1989 – 10/31/1996 FY97: $1 Total: $416,814
Prin. Invest.: C P BRITCHER
Tech. Officer: LARC/N J GROOM
CASE Category: 49 – ENGINEERING, OTHER

NAG 1 1114 OLD DOMINION UNIVERSITY **9490**
BUILDING A GENERALIZED DISTRIBUTED SYSTEM MODEL
03/15/1990 – 07/31/1997 FY97: $0 Total: $78,341
Prin. Invest.: R MUKKAMALA, E FOUDRIAT
Tech. Officer: LARC/W H BRYANT
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1140 OLD DOMINION UNIVERSITY **9491**
AN INVESTIGATION OF GLOW DISCHARGE MEMBRANE SEPERATION OF OXYGEN FROM MARS ATMOSPHERE
05/07/1990 – 12/31/1997 FY97: $15,001 Total: $270,385
Prin. Invest.: R L ASH
Tech. Officer: LERC/R A OUTLAW, LERC/J H LEE
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 1265 OLD DOMINION UNIVERSITY **9492**
METHODOLOGY FOR SENSITIVITY ANALYSIS, APPROXIMATE ANALYSIS AND DESIGN OPTIMIZATION IN CFD FOR MULTI
04/11/1991 – 12/31/1995 FY97: $0 Total: $306,360
Prin. Invest.: A C TAYLOR, G W HOU
Tech. Officer: LARC/H E JONES, LARC/E C YATES
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1426 OLD DOMINION UNIVERSITY **9493**
DEVELOPMENT OF A CASE TOOL TO SUPPORT DECISION BASED SOFTWARE DEVELOPMENT
04/13/1992 – 12/31/1996 FY97: $1 Total: $46,477
Prin. Invest.: C WILD
Tech. Officer: LARC/D E ECKHARDT
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1437 OLD DOMINION UNIVERSITY **9494**
IMPROVED TECHNIQUES FOR VORTEX HAZARD PREDICTION NEAR AIRPORTS
04/28/1992 – 10/31/1996 FY97: $1 Total: $389,878
Prin. Invest.: R L ASH
Tech. Officer: LARC/G C GREENE, LARC/D D VICROY
CASE Category: 13 – PHYSICS

NAG 1 1505 OLD DOMINION UNIVERSITY **9495**
ASSUMED-STRESS HYBRID ELEMENTS WITH DRILLING DEGREES OF FREEDOM FOR NONLINEAR ANALYSIS
04/21/1993 – 12/31/1995 FY97: –$2,904 Total: $218,179
Prin. Invest.: N KNIGHT
Tech. Officer: LARC/A TESSLER
CASE Category: 46 – MECHANICAL ENGR

NAG 1 1550 OLD DOMINION UNIVERSITY **9496**
A PARALLEL AND DISTRIBUTED COMPUTING ENVIRONMENT F OR SCIENTIFIC APPLICATIONS
11/17/1993 – 08/15/1997 FY97: $50,001 Total: $207,497
Prin. Invest.: K MALY, M ZUBAIR, C M OVERSTREET
Tech. Officer: LARC/M D SALAS
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1567 OLD DOMINION UNIVERSITY **9497**
NONLINEAR TRANSIENT THERMAL ANALYSIS BY THE FORCE OF DERIVATIVE METHOD
01/05/1994 – 01/03/1996 FY97: $1 Total: $50,111
Prin. Invest.: G HOU, V BALEKRISHNEN, NONE
Tech. Officer: LARC/C J CANARDA, LARC/J H STARNES
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1578 OLD DOMINION UNIVERSITY **9498**
DEVELOPMENT OF A TI:AL2O3 LASER FOR REMOTE SENSING OF THE ATMOSPHERE NLPN 93-1104
12/16/1993 – 12/31/1997 FY97: $27,693 Total: $103,907
Prin. Invest.: H ELSAYED-ALI, W SITU
Tech. Officer: LARC/E V BROWELL, LARC/A F CARTER
CASE Category: 13 – PHYSICS

NAG 1 1588 OLD DOMINION UNIVERSITY **9499**
ANALYSIS AND DESIGN OF FUSELAGE STRUCTURES INCLUDI NG RESIDUAL STRENGTH PREDICTION METHODOLOGY
02/09/1994 – 12/31/1997 FY97: $88,201 Total: $397,163
Prin. Invest.: N F KNIGHT, M S ANDERSON
Tech. Officer: LARC/J H STARNES, LARC/D R AMBUR
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1653 OLD DOMINION UNIVERSITY **9500**
AN INVESTIGATION OF HIGH-ORDER SHOCK-CAPTURING MET HODS FOR COMPUTATIONAL AEROACOUSTICS —MY1/3
01/06/1995 – 03/31/1997 FY97: $1 Total: $140,001
Prin. Invest.: J H CASPER, O BAYSAL
Tech. Officer: LARC/H L ATKINS, LARC/J L THOMAS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1670 OLD DOMINION UNIVERSITY **9501**
A TWO DIMENSIONAL INTERFACE ELEMENT FOR COUPLING OF INDEPENDENTLY MODELED THREE DIMENSIONAL FINITE
01/12/1995 – 08/15/1997 FY97: $1 Total: $114,811
Prin. Invest.: D A KANDIL
Tech. Officer: LARC/W K STROUD
CASE Category: 46 – MECHANICAL ENGR

NAG 1 1677 OLD DOMINION UNIVERSITY **9502**
PREDICTION AND CONTROL OF SUPERSONIC JET NOISE
01/13/1995 – 09/30/1997 FY97: $1 Total: $110,001
Prin. Invest.: P BALAKUMAR
Tech. Officer: LARC/M G MACARAEG
CASE Category: 11 – ASTRONOMY

NAG 1 1684 OLD DOMINION UNIVERSITY **9503**
EXPERIMENTAL AND NUMERICAL ANALYSES OF STRUCTURAL ACOUSTIC CONTROL FOR INTERIOR NOISE REDUCTION
01/10/1995 – 01/09/1998 FY97: $48,001 Total: $234,782
Prin. Invest.: C MEI
Tech. Officer: LARC/T L TURNER, LARC/K P SHEPHERD
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1690 OLD DOMINION UNIVERSITY **9504**
INFORMATION TECHNOLOGY: A TOOL TO CUT HEALTH CARE COSTS
02/27/1995 – 08/31/1996 FY97: –$56 Total: $19,849
Prin. Invest.: R MUKKAMALA
Tech. Officer: LARC/W H BRYANT
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1692 OLD DOMINION UNIVERSITY **9505**
PARALLEL IMPLICIT ALGORITHMS FOR CFD
02/23/1995 – 02/22/1998 FY97: $47,500 Total: $137,500
Prin. Invest.: D E KEYES
Tech. Officer: LARC/N D MELSON, LARC/J L THOMAS
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 1 1745 OLD DOMINION UNIVERSITY **9506**
A PROPOSAL FOR BENCHMARKING THE FUTURE AUTOMATED A IR TRAFFIC MANAGEMENT (NLPN 95-625)
08/15/1995 – 12/31/1997 FY97: $13,572 Total: $42,269
Prin. Invest.: D MALY
Tech. Officer: LARC/W H BRYANT
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1747 OLD DOMINION UNIVERSITY **9507**
NEW NASA RESEARCH GRANT
08/11/1995 – 08/11/1996 FY97: $1 Total: $20,886
Prin. Invest.: D MUKKAMALA
Tech. Officer: LARC/W H BRYANT
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1750 OLD DOMINION UNIVERSITY **9508**
REMOTELY ACTUATED FLAP PROJECT
08/15/1995 – 08/31/1996 FY97: –$1 Total: $19,961
Prin. Invest.: D LANDMAN, C P BRITCHER
Tech. Officer: LARC/J C LIN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1853 OLD DOMINION UNIVERSITY **9509**
PERFORMANCE EVALUATION OF DATA LINK ARCHITECTURES FOR LVASO
07/01/1996 – 09/30/1998 FY97: $25,001 Total: $30,001
Prin. Invest.: D MUKKAMALA
Tech. Officer: LARC/R W WILLS
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1858 OLD DOMINION UNIVERSITY **9510**
IMPACT AND PENETRATION SIMULATIONS FOR COMPOSITE WING-LIKE STRUCTURES
07/08/1996 – 08/31/1997 FY97: $1 Total: $43,971
Prin. Invest.: D F KNIGHT
Tech. Officer: LARC/D R AMBUR, LARC/D H STARNES
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1859 OLD DOMINION UNIVERSITY **9511**
NONLINEAR SENSITIVITY ANALYSIS FOR STATIC AND TRANSIENT THERMAL PROBLEMS
07/08/1996 – 11/30/1997 FY97: $0 Total: $24,000
Prin. Invest.: G HOU
Tech. Officer: LARC/K S BEY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1869 OLD DOMINION UNIVERSITY **9512**
MEASUREMENT OF OXYGEN A BAND LINE PARAMETERS BY USING MODULATION SPECTROSCOPY WITH HIGHER HARMONIC
09/17/1996 – 09/16/1998 FY97: $20,000 Total: $59,135
Prin. Invest.: A N DHARAMSI*Prin. Invest.:* NONE
Tech. Officer: LARC/W P CHU
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1934 OLD DOMINION UNIVERSITY **9513**
PSE COMPUTATIONS IN THE STRONGLY NONLINEAR REGION
06/10/1997 – 01/05/1998 FY97: $22,001 Total: $22,001
Prin. Invest.: P BALAKUMAR
Tech. Officer: LARC/R D JOSLIN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1940 OLD DOMINION UNIVERSITY **9514**
THE REDUCTION OF DUCTED FAN ENGINE NOISE VIA A BOUNDARY INTEGRAL EQUATION METHOD
05/29/1997 – 05/30/1998 FY97: $68,512 Total: $68,512
Prin. Invest.: J TWEED, M DUNN
Tech. Officer: LARC/F FARASSAT, LARC/J W POSEY
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 1 1960 OLD DOMINION UNIVERSITY **9515**
FIBER OPTIC RECEIVER SYSTEM FOR A WATER VAPOR DIFF ERENTIAL LIDAR INSTRUMENT
08/13/1997 – 08/15/1998 FY97: $24,395 Total: $24,395
Prin. Invest.: H ELSAYED–ALI
Tech. Officer: LARC/R DEYOUNG
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 1527 OLD DOMINION UNIVERSITY **9516**
STUDIES OF PARTICLE RADIATION DAMAGE EFFECTS IN SPACECRAFT INSTRUMENTATION
04/08/1991 – 06/30/1996 FY97: $0 Total: $197,000
Prin. Invest.: J BECHER
Tech. Officer: GSFC/R A KIMBLE, GSFC/F J REBAR
CASE Category: 13 – PHYSICS

NAG 5 3567 OLD DOMINION UNIVERSITY **9517**
NASA SPACEPORT INFRASTRUCTURE GRANT PROGRAM TO SUPPORT DEVELOPMENT OF VIRGINIA SPACEFLIGHTCENTER
01/16/1997 – 01/14/1998 FY97: $406,250 Total: $406,250
Prin. Invest.: B M REED
Tech. Officer: GSFC/G ALCORN, GSFC/N MINNIFIELD
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 4515 OLD DOMINION UNIVERSITY **9518**
STUDYING THE EARTH'S ENVIRONMENT IN SPACE: CLASSR ACTIVITIES WITH INSTRUCTION RESOURCES.
06/02/1997 – 05/31/1998 FY97: $83,990 Total: $83,990
Prin. Invest.: E SMITH
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 5100 OLD DOMINION UNIVERSITY **9519**
IMPROVEMENTS TO BALLOON VERTICAL PERFORMANCE MODEL TERRESTRIAL & NON–TERRESTRIAL APPLICATIONS
02/11/1997 – 06/15/1998 FY97: $79,943 Total: $79,943
Prin. Invest.: G V SELBY
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 49 – ENGINEERING, OTHER

NAG 9 956 OLD DOMINION UNIVERSITY **9520**
RADIO FREQUENCY DISCHARGE ENHANCEMENT OF OXYGEN PRODUCTION FROM CO2
08/27/1997 – 03/01/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: L VUSKOVIC
Tech. Officer: JSC/D I KAPLAN, JSC/G B SANDERS
CASE Category: 13 – PHYSICS

NAGW 3550 OLD DOMINION UNIVERSITY **9521**
ASSIMILATION OF OCEAN COLOR MEASUREMENT INTO PHYSI CAL BIOLOGICAL MODELS
04/29/1993 – 09/30/1997 FY97: $0 Total: $485,000
Prin. Invest.: E HOFMANN
Tech. Officer: HQ/R E MURPHY, HQ/D M BUTLER
CASE Category: 33 – OCEANOGRAPHY

NAGW 3981 OLD DOMINION UNIVERSITY **9522**
AVHRR PATHFINDER OCEAN DATA VALIDATION
05/14/1994 – 03/31/1997 FY97: $0 Total: $383,690
Prin. Invest.: E SMITH
Tech. Officer: HQ/M E MAIDEN
CASE Category: 33 – OCEANOGRAPHY

NAGW 4339 OLD DOMINION UNIVERSITY **9523**
MECHANICAL SYSTEMS DESIGN FOR ADVANCED SPACE MISSIONS/ADVANCED DESIGN PROGRAM
03/04/1995 – 02/28/1996 FY97: –$320 Total: $17,030
Prin. Invest.: R ASH, NONE
Tech. Officer: HQ/A S MCGEE, HQ/G JOHNSTON
CASE Category: 49 – ENGINEERING, OTHER

NAGW 5123 OLD DOMINION UNIVERSITY **9524**
REMOTE SENSING OF OCEAN COLOR IN THE HIGH ARTIC
07/01/1996 – 06/30/1997 FY97: $0 Total: $187,692
Prin. Invest.: G COTA
Tech. Officer: HQ/N MAYNARD, HQ/R C HARRISS
CASE Category: 11 – ASTRONOMY

NAGW 5248 OLD DOMINION UNIVERSITY **9525**
BUSINESS PLAN FOR THE VIRGINIA SPACE FLIGHT CENTER
10/29/1996 – 12/31/1997 FY97: $50,000 Total: $50,000
Prin. Invest.: B REED
Tech. Officer: HQ/Y R YADVISH
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAS 1 19858 OLD DOMINION UNIVERSITY **9526**
RESEARCH IN AERODYNAMICS AND RELATED FIELDS
11/05/1992 – 11/04/1998 FY97: $900,460 Total: $7,543,894
Prin. Invest.:
Tech. Officer: LARC/E J PRIOR, LARC/R L YANG
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 1 42 OLD DOMINION UNIVERSITY **9527**
A STUDY OF PHYSICAL PROCESSES FOR SPACE - RELATED PROTECTION
06/04/1980 - 05/15/1998 FY97: $25,000 Total: $1,606,888
Prin. Invest.: G S KHANDELWAL
Tech. Officer: LARC/L W TOWNSEND, LARC/E J CONWAY
CASE Category: 13 - PHYSICS

NCC 1 68 OLD DOMINION UNIVERSITY **9528**
NUMERICAL SOLUTION OF AXISYMMETRIC FLOW WITH ARBITRARY WALL GEOMETRY
05/28/1982 - 12/31/1996 FY97: -$65 Total: $515,284
Prin. Invest.: S N TIWARI, J S ABOLHASSANI, M KATHONG
Tech. Officer: LARC/R E SMITH, JR., LARC/J N SHOOSMITH
CASE Category: 41 - AERONAUTICAL ENGNR

NCC 1 176 OLD DOMINION UNIVERSITY **9529**
FUNCTIONAL RELATIONSHIPS AMONG MONITORING PERFORM- ANCE: SUBJECTIVE REPORT OF THOUGHT PROCESS
03/30/1993 - 09/30/1995 FY97: $1 Total: $33,096
Prin. Invest.: F G FREEMAN, M W SCERBO
Tech. Officer: LARC/A T POPE, LARC/J R COMSTOCK
CASE Category: 69 - PSYCHOLOGY, OTHER

NCC 1 180 OLD DOMINION UNIVERSITY **9530**
COMPUTATIONAL AND EXPERIMENTAL PARAMETRIC STUDY OF TRAN- SITION AT HIGH MACH NUMBERS
05/13/1993 - 06/30/1996 FY97: -$16 Total: $108,624
Prin. Invest.: G V SELBY, A E BLANCHARD
Tech. Officer: LARC/S P WILKINSON
CASE Category: 41 - AERONAUTICAL ENGNR

NCC 1 211 OLD DOMINION UNIVERSITY **9531**
COUPLING CELL-CENTERED FINITE-VOLUME MULTIBLOCK VI SCOUS CFD METHODOLOGY WITH OPTIMIZATION
03/09/1995 - 03/08/1996 FY97: $1 Total: $25,001
Prin. Invest.: O BAYSAL
Tech. Officer: LARC/V N VATSA
CASE Category: 41 - AERONAUTICAL ENGNR

NCC 1 213 OLD DOMINION UNIVERSITY **9532**
SINGULARITY PRESERVING NUMERICAL METHODS FOR BOUNDRY INTE- GRAL EQUATIONS
05/08/1995 - 05/07/1996 FY97: -$164 Total: $26,836
Prin. Invest.: H KANEKO, Y XU
Tech. Officer: LARC/P A PADILLA
CASE Category: 21 - MATHEMATICS

NCC 1 219 OLD DOMINION UNIVERSITY **9533**
DEVELOPMENT OF A PHOTON COUNTING SYSTEM FOR DIFFERENTIAL LIDAR SIGNAL DETECTION
01/23/1996 - 12/31/1996 FY97: $1 Total: $18,991
Prin. Invest.: H ELSAYED-ALI
Tech. Officer: LARC/E J CONWAY, LARC/R J DE YOUNG
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 1 227 OLD DOMINION UNIVERSITY **9534**
INVESTIGATION OF ADVANCED COMPOSITE MATERIALS AND AUTOMATED PROCESS
05/17/1996 - 11/30/1997 FY97: $218,307 Total: $343,596
Prin. Invest.: J M MARCHELLO
Tech. Officer: LARC/N J JOHNSTON, LARC/R J CANO
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 1 230 OLD DOMINION UNIVERSITY **9535**
LIDAR DETECTION SYSTEM DEVELOPMENT OF AN ADVANCED WATER VAPOR
06/10/1996 - 06/15/1998 FY97: $29,000 Total: $51,953
Prin. Invest.: H EL SAYID EL
Tech. Officer: LARC/R J DE YOUNG
CASE Category: 45 - ELECTRICAL ENGR

NCC 1 232 OLD DOMINION UNIVERSITY **9536**
INSTITUTE FOR SCIENTIFIC AND EDUCATIONAL TECHNOLOG Y (ISET)
06/17/1996 - 06/30/1998 FY97: $291,557 Total: $412,325
Prin. Invest.: S TIWARI
Tech. Officer: LARC/S E MASSENBERG, LARC/E J PRIOR
CASE Category: 41 - AERONAUTICAL ENGNR

NCC 1 235 OLD DOMINION UNIVERSITY **9537**
DEVELOPMENT OF A THREE DIMENSIONAL PSE CODE FOR COMPRESS- IBLE FLOWS
07/02/1996 - 06/30/1997 FY97: $18,959 Total: $28,437
Prin. Invest.: P L BALAKUMAR
Tech. Officer: LARC/R A THOMPSON, LARC/C G MILLER
CASE Category: 41 - AERONAUTICAL ENGNR

NCC 1 248 OLD DOMINION UNIVERSITY **9538**
MAGNETIC SUSPENSION TECHNOLOGY DEVELOPMENT
01/09/1997 - 12/31/1997 FY97: $42,214 Total: $42,214
Prin. Invest.: C P BRITCHER
Tech. Officer: LARC/N J GROOM
CASE Category: 49 - ENGINEERING, OTHER

NCC 1 254 OLD DOMINION UNIVERSITY **9539**
ASSESSMENT OF BIOMEDICAL ENGINEERING IN MAN/ MACHINE INTER- ACTIONS
04/22/1997 - 04/21/1998 FY97: $18,001 Total: $18,001
Prin. Invest.: S TIWARI
Tech. Officer: LARC/A T POPE
CASE Category: 46 - MECHANICAL ENGR

NCC 3 469 OLD DOMINION UNIVERSITY **9540**
THE REDUCTION OF DUCTED FAN ENGINE NOISE VIA A BOU NDARY INTE- GRAL EQUATION METHOD
04/22/1996 - 04/21/1997 FY97: $40,000 Total: $120,000
Prin. Invest.: D TWEED, D DUNN
Tech. Officer: LERC/D HUFF
CASE Category: 41 - AERONAUTICAL ENGNR

NGT 30354 OLD DOMINION UNIVERSITY **9541**
GLOBAL CHANGE FELLOWSHIP AWARD
07/20/1995 - 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: E HOFMANN, T BUSALACCHI
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 33 - OCEANOGRAPHY

NGT 40009 OLD DOMINION UNIVERSITY **9542**
NATIONAL SPACE GRANT COLLEGE
10/12/1989 - 09/30/1997 FY97: $15,000 Total: $3,204,674
Prin. Invest.: M L SANDY
Tech. Officer: HQ/L KEFFER
CASE Category: 41 - AERONAUTICAL ENGNR

NGT 50980 OLD DOMINION UNIVERSITY **9543**
GSRP
07/24/1992 – 11/30/1996 FY97: –$505 Total: $87,495
Prin. Invest.: A O DEMUREH
Tech. Officer: LARC/E PRIOR
CASE Category: 46 – MECHANICAL ENGR

NGT 50987 OLD DOMINION UNIVERSITY **9544**
NGT-50987/OLD DOMINION UNIV/GRADUATE STUDENT RESEARCHERS PROGRAM
08/19/1992 – 10/31/1995 FY97: –$186 Total: $65,814
Prin. Invest.: R PROBHAKARAN
Tech. Officer: LARC/E J PRIOR
CASE Category: 46 – MECHANICAL ENGR

NGT 51164 OLD DOMINION UNIVERSITY **9545**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/23/1993 – 06/30/1997 FY97: $0 Total: $40,334
Prin. Invest.: S TIWARI
Tech. Officer: HQ/J T LYNCH
CASE Category: 46 – MECHANICAL ENGR

NGT 51188 OLD DOMINION UNIVERSITY **9546**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/01/1993 – 07/31/1996 FY97: –$152 Total: $65,848
Prin. Invest.: K H SCHOENBACH
Tech. Officer: LARC/L EVANS
CASE Category: 45 – ELECTRICAL ENGR

NGT 51247 OLD DOMINION UNIVERSITY **9547**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/14/1994 – 09/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: A C TAYLOR
Tech. Officer: LARC/L EVANS
CASE Category: 46 – MECHANICAL ENGR

NGT 51253 OLD DOMINION UNIVERSITY **9548**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/14/1994 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: J B COOPER
Tech. Officer: LARC/L EVANS
CASE Category: 12 – CHEMISTRY

NGT 51259 OLD DOMINION UNIVERSITY **9549**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/09/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: R L ASH
Tech. Officer: LARC/L EVANS
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 70308 OLD DOMINION UNIVERSITY **9550**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/20/1993 – 08/31/1996 FY97: $0 Total: $88,000
Prin. Invest.: S ALBIN
Tech. Officer: HQ/D K RUSSELL
CASE Category: 45 – ELECTRICAL ENGR

NGT 70382 OLD DOMINION UNIVERSITY **9551**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
08/30/1994 – 06/30/1996 FY97: –$93 Total: $65,907
Prin. Invest.: J L SCHWING
Tech. Officer: HQ/D K RUSSELL
CASE Category: 22 – COMPUTER SCIENCE

NGT 90279 OLD DOMINION UNIVERSITY **9552**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
01/31/1995 – 08/14/1996 FY97: $0 Total: $24,000
Prin. Invest.: N BROWN
Tech. Officer: HQ/D K RUSSELL
CASE Category: 44 – CIVIL ENGR

NGT 1 52113 OLD DOMINION UNIVERSITY **9553**
GRADUATE STUDENT RESEARCHER (GSRP)
06/16/1995 – 12/31/1996 FY97: $1 Total: $31,001
Prin. Invest.: M D MEYER, R D HOLT
Tech. Officer: LARC/C L CARPENTER, LARC/J L CARCIA
CASE Category: 22 – COMPUTER SCIENCE

NGT 1 52118 OLD DOMINION UNIVERSITY **9554**
GRADUATE STUDENT RESEARCHER PROGRAM
06/28/1995 – 06/30/1996 FY97: $1 Total: $13,001
Prin. Invest.: N WILSON
Tech. Officer: LARC/A T POPE, LARC/J R COMSTOCK
CASE Category: 69 – PSYCHOLOGY, OTHER

NGT 1 52123 OLD DOMINION UNIVERSITY **9555**
GRADUATE STUDENT RESEARCHER PROGRAM (GSRP)
05/15/1996 – 06/30/1998 FY97: $22,001 Total: $44,001
Prin. Invest.: L J PRINZEL, F G FREEMAN
Tech. Officer: LARC/A T POPE, LARC/J R COMSTOCK, JR.
CASE Category: 69 – PSYCHOLOGY, OTHER

NGT 1 52124 OLD DOMINION UNIVERSITY **9556**
GRADUATE STUDENT RESEARCHER PROGRAM (GSRP)
05/15/1996 – 06/30/1998 FY97: $10,000 Total: $32,000
Prin. Invest.: K L WISE, J B COOPER
Tech. Officer: LARC/B J JENSEN
CASE Category: 12 – CHEMISTRY

NGT 1 52130 OLD DOMINION UNIVERSITY **9557**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
06/06/1996 – 06/30/1998 FY97: $10,000 Total: $32,000
Prin. Invest.: S A SCEARCE
Tech. Officer: LARC/R WILLIAMS, LARC/T NGUYEN
CASE Category: 45 – ELECTRICAL ENGR

NGT 1 52131 OLD DOMINION UNIVERSITY **9558**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/06/1996 – 06/30/1997 FY97: $1 Total: $22,001
Prin. Invest.: A M BULLOCK
Tech. Officer: LARC/W P CHU
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 1 52144 OLD DOMINION UNIVERSITY **9559**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
07/11/1996 – 05/31/1998 FY97: $1 Total: $22,001
Prin. Invest.: D PRABHAKARAN, M G FIELDS
Tech. Officer: LARC/T L ST. CLARON, LARC/R G BRYANT
CASE Category: 46 – MECHANICAL ENGR

NGT 1 52157 OLD DOMINION UNIVERSITY **9560**
NASA-ASEE SUMMER FACULTY FELLOWSHIP PROGRAM
03/11/1997 – 12/31/1997 FY97: $638,001 Total: $638,001
Prin. Invest.: S TIWARI
Tech. Officer: LARC/R A HATHAWAY, LARC/E J PRIOR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 1 52168 OLD DOMINION UNIVERSITY **9561**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
05/14/1997 – 06/30/1998 FY97: $10,001 Total: $10,001
Prin. Invest.: P SHEA
Tech. Officer: LARC/W T CHU
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 1 52171 OLD DOMINION UNIVERSITY **9562**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/29/1997 – 11/30/1997 FY97: $22,000 Total: $22,000
Prin. Invest.: C P BRITCHER
Tech. Officer: LARC/N J GROOW
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 1 52173 OLD DOMINION UNIVERSITY **9563**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
05/07/1997 – 06/30/1998 FY97: $10,000 Total: $10,000
Prin. Invest.: N F KNIGHT, JR.
Tech. Officer: LARC/J H STORRIES, JR.
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 40009 OLD DOMINION UNIVERSITY **9564**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA CONSORTIUM
11/16/1996 – 08/31/1997 FY97: $94,634 Total: $94,634
Prin. Invest.: M L SANDY
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40059 OLD DOMINION UNIVERSITY **9565**
IN SUPPORT OF THE NATIONAL SPACE GRANT COLLEGE PROGRAM
02/21/1997 – 01/31/1998 FY97: $405,000 Total: $405,000
Prin. Invest.: M L SANDY
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90043 OLD DOMINION UNIVERSITY **9566**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH (USAR)
01/30/1997 – 12/31/1997 FY97: $12,000 Total: $12,000
Prin. Invest.: N BRONW–HILL
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 44 – CIVIL ENGR

NGT47 3029 OLD DOMINION UNIVERSITY **9567**
TO SUPPORT THE SUMMER FACULTY FELLOWSHIP PROGRAM IN RESEARCH $150,870
11/14/1969 – 05/31/1997 FY97: $0 Total: $4,824,084
Prin. Invest.: S N TIWARI
Tech. Officer: HQ/A S MCGEE, HQ/E T SCHWARTZ
CASE Category: 49 – ENGINEERING, OTHER

NAG 8 1009 RADFORD UNIVERSITY **9568**
JOVE
11/24/1993 – 05/31/1997 FY97: $0 Total: $75,841
Prin. Invest.: J D ECKERT, B H KUENNECKE
Tech. Officer: MSFC/F SIX*Tech. Officer:* NONE
CASE Category: 11 – ASTRONOMY

NAG 5 5053 ROANOKE COLLEGE **9569**
CROSS SECTION CALCULATION FOR COSMIC RAY DATA ANALYSIS OF NASA SPONSORED EXPERIMENTS
03/27/1996 – 02/28/1998 FY97: $40,000 Total: $80,000
Prin. Invest.: C TASCO
Tech. Officer: GSFC/H NEEDLEMAN
CASE Category: 13 – PHYSICS

NAG 8 1208 ROANOKE COLLEGE **9570**
JOVE
09/25/1995 – 08/31/1998 FY97: $9,217 Total: $36,008
Prin. Invest.: A F BARGHOUTY
Tech. Officer: MSFC/D SIX
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4639 ROANOKE COLLEGE **9571**
CROSS SECTION CALCULATIONS FOR COSMIC–RAY DATA ANA LYSIS OF NASA SPONSORED EXPERIMENTS
07/31/1995 – 06/30/1998 FY97: $0 Total: $40,000
Prin. Invest.: C H TSAO
Tech. Officer: HQ/M FORMAN, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NGT 9 13 SHENANDOAH UNIVERSITY **9572**
SUMMER FACULTY FELLOWSHIP
09/24/1996 – 04/30/1998 FY97: $0 Total: $15,000
Prin. Invest.: S LEMOINE
Tech. Officer: JSC/E PRITCHARD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 1 1860 THOMAS NELSON COMMUNITY COLLEGE **9573**
ADVENTURES IN TECHNOLOGY = OPTIONS IN MATH AND SCIENCE REGIONAL SUMMER INSTITUTE ATOMS/RSI
07/09/1996 – 07/08/1997 FY97: $30,000 Total: $40,000
Prin. Invest.: M QUANTY
Tech. Officer: LARC/R HATHAWAY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 1 745 UNIVERSITY OF VIRGINIA **9574**
ENVIRONMENT ASSISTED DEGRADATION MECHANISMS IN ALUMINUM–LITHIUM ALLOYS
03/23/1987 – 12/31/1997 FY97: $343,535 Total: $8,275,052
Prin. Invest.: R P GANGLOFF, G E STONER
Tech. Officer: LARC/D L DICUS, LARC/D M ROYSTER
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 1123 UNIVERSITY OF VIRGINIA **9575**
SOFTWARE FAULT TOLERANCE USING DATA DIVERSITY _____FDP
04/02/1990 – 07/31/1997 FY97: $63,000 Total: $658,380
Prin. Invest.: J C KNIGHT
Tech. Officer: LARC/D E ECKHARDT
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1162 UNIVERSITY OF VIRGINIA **9576**
TRANSVERSRE STRESSES IN LAMINATED COMPOSITE PANELS (FDP)
07/11/1990 – 01/31/1998 FY97: $80,000 Total: $645,975
Prin. Invest.: A K NOOR
Tech. Officer: LARC/J H STARNES
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1180 UNIVERSITY OF VIRGINIA **9577**
NONLINEAR ANALYSIS AND MODELING OF TIRES _____FDP
09/17/1990 – 03/31/1996 FY97: -$1 Total: $295,000
Prin. Invest.: A K NOOR
Tech. Officer: LARC/J A TANNER, LARC/M P ROBINSON
CASE Category: 46 – MECHANICAL ENGR

NAG 1 1529 UNIVERSITY OF VIRGINIA **9578**
RESEARCH IN PARALLEL COMPUTING
07/12/1993 – 01/08/1997 FY97: -$31 Total: $79,969
Prin. Invest.: J M ORTEGA
Tech. Officer: LARC/J J LAMBIOTTE
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1633 UNIVERSITY OF VIRGINIA **9579**
FUEL PLUME IMAGING VALIDATION
07/06/1994 – 12/31/1995 FY97: $1 Total: $193,001
Prin. Invest.: J C MCDANIEL
Tech. Officer: LARC/R C ROGERS, LARC/C R MCCLINTON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1678 UNIVERSITY OF VIRGINIA **9580**
TECHNOLOGY FOR ELEVATED TEMPERATURE TESTS OF STRUC TURAL PANELS
01/30/1995 – 12/31/1997 FY97: $83,096 Total: $190,744
Prin. Invest.: E A THORNTON, G LAUFER
Tech. Officer: LARC/S J SCOTTI, LARC/J W SAWYER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1680 UNIVERSITY OF VIRGINIA **9581**
MICROGRAVITY CHEMICAL VAPOR DEPOSITION
01/27/1995 – 03/31/1997 FY97: $1 Total: $105,802
Prin. Invest.: W A JESSER
Tech. Officer: LARC/I O CLARK
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 1710 UNIVERSITY OF VIRGINIA **9582**
MULTIDISCIPLINARY PROBLEMS
03/31/1995 – 09/30/1996 FY97: $1 Total: $25,001
Prin. Invest.: J M ORTEGA
Tech. Officer: LARC/J L WALSH
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 1 1723 UNIVERSITY OF VIRGINIA **9583**
MOLECULAR MODELING OF POLYIMIDES
04/26/1995 – 10/31/1997 FY97: $23,594 Total: $66,399
Prin. Invest.: B L FARMER
Tech. Officer: LARC/J A HINKLEY, LARC/T S GATES
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 1774 UNIVERSITY OF VIRGINIA **9584**
LASE VALIDATION EXPERIMENT
10/24/1995 – 03/31/1998 FY97: $67,278 Total: $96,893
Prin. Invest.: M GARSTANG
Tech. Officer: LARC/EV BROWELL, LARC/E J CONWAY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1841 UNIVERSITY OF VIRGINIA **9585**
NASA/UVA LIGHT AEROSPACE ALLOY AND STRUCTURES TECH PROGRAM (LA2ST)
05/31/1996 – 05/31/1998 FY97: $20,000 Total: $120,000
Prin. Invest.: R P GANGLOFF
Tech. Officer: LARC/R S PIASCIK
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 1854 UNIVERSITY OF VIRGINIA **9586**
LOCAL GRADIENTS, DISCONTINUITIES AND LOAD DIF FUSION IN COM-POSITE STRUCTURES
07/10/1996 – 07/09/1997 FY97: $17,500 Total: $30,000
Prin. Invest.: D O HORGAN, D G SIMMONDS
Tech. Officer: LARC/D P NEMETH, LARC/D H STARNES
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1334 UNIVERSITY OF VIRGINIA **9587**
HIGH PERFORMANCE MAGNETIC BEARINGS FOR AERO APPLIC AITONS
03/03/1992 – 11/26/1996 FY97: $0 Total: $427,324
Prin. Invest.: P E ALLAIRE, C R KNOSPE, E H MASLEN
Tech. Officer: LERC/G V BROWN
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1396 UNIVERSITY OF VIRGINIA **9588**
THE EFFECTS OF CONVECTION ON THE THERMOCAPILLARY M OTION OF DEORMABLE DROPS IN CYLINDRICAL CONTAINER
12/04/1992 – 11/30/1996 FY97: $0 Total: $273,624
Prin. Invest.: H HAJ–HARIRI
Tech. Officer: LERC/J A SALZMAN
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1518 UNIVERSITY OF VIRGINIA **9589**
FREE STREAM VITIATION EFFECTS ON SUPERSONIC COMBUS TION OF HYDROGEN IN AIR
09/10/1993 – 11/30/1997 FY97: $34,830 Total: $466,868
Prin. Invest.: R H KRAUSS, J C MCDANIEL, H K CHELLIAH
Tech. Officer: LERC/S R THOMAS, LERC/C J TREFNY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1916 UNIVERSITY OF VIRGINIA **9590**
INSTABILITY MECHANISMS OF THERMALLY–DRIVEN INTERFA CIAL FLOWS IN LIGHT–ENCAPSULATED CRYSTALGROWTH
07/16/1996 – 07/16/2000 FY97: $0 Total: $84,000
Prin. Invest.: H HAJ–HARIRI
Tech. Officer: LERC/T GLASGOW
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1928 UNIVERSITY OF VIRGINIA **9591**
HETEROGENEOUS COMB OF POROUS SOLLID FUEL PART UNDE R MICRO-GRAV: A COMPREHENSIVE THERO & EXPSTUDIES
07/23/1996 – 07/24/2000 FY97: $43,725 Total: $86,025
Prin. Invest.: H CHELLIAH, F MILLER
Tech. Officer: LERC/H ROSS
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1948 UNIVERSITY OF VIRGINIA **9592**
EXTENSIONS TO THE TURBO CODING SCHEME
08/12/1996 – 08/31/1997 FY97: $0 Total: $62,225
Prin. Invest.: D G WILSON, M K HALL
Tech. Officer: LERC/M KIFLE, LERC/M V NGUYEN
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1997 UNIVERSITY OF VIRGINIA **9593**
MICROMECHANICAL MODELLING OF WOVEN GRAPHITE/COPPER COMPOSITES UNDER THERMOMECHANICAL LOADING
11/20/1996 – 11/19/1997 FY97: $59,848 Total: $59,848
Prin. Invest.: M J PINDERA
Tech. Officer: LERC/R V MINER
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 2009 UNIVERSITY OF VIRGINIA **9594**
LOW POWER LOSS MAGNETIC BEARINGS FRO FLYWHEEL AND TURBINE ENGINE APPLICATIONS
02/12/1997 – 12/31/1997 FY97: $50,000 Total: $50,000
Prin. Invest.: P E ALLAIRE, G T GILLIES
Tech. Officer: LERC/A J PROVENZA, LERC/G V BROWN
CASE Category: 46 – MECHANICAL ENGR

NAG 5 700 UNIVERSITY OF VIRGINIA **9595**
ULTRAVIOLET IMAGING TELESCOPE ASTRONMICAL OBSERVATIONS
09/01/1985 – 07/14/1998 FY97: $0 Total: $898,552
Prin. Invest.: R W O CONNELL
Tech. Officer: GSFC/T P STECHER, GSFC/G R BAKER
CASE Category: 11 – ASTRONOMY

NAG 5 1961 UNIVERSITY OF VIRGINIA **9596**
INTERDISCIPLINARY RESEARCH SCENARIO TESTING OF EOS DIS, VERSION O – SERIES 2
04/03/1992 – 10/01/1997 FY97: $0 Total: $452,009
Prin. Invest.: M GARSTANG, G D EMMITT
Tech. Officer: GSFC/STOCKEY
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2061 UNIVERSITY OF VIRGINIA **9597**
TRMM ATMOSPHERIC BUDGET STUDY
08/05/1992 – 01/14/1998 FY97: $0 Total: $241,384
Prin. Invest.: M GARSTANG
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2295 UNIVERSITY OF VIRGINIA **9598**
MULTIDISCIPLINE INTEGRATIVE MODELS OF FOREST ECOSY STEM DYNAMICS FOR THE BOREAL FOREST BIOME
06/17/1993 – 06/30/1998 FY97: $80,000 Total: $218,089
Prin. Invest.: H H SHUGART
Tech. Officer: GSFC/F G HALL, GSFC/P SELLERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2526 UNIVERSITY OF VIRGINIA **9599**
X-RAY SPECTRA OF CLUSTER COOLING FLOWS WITH EXCESS
03/09/1994 – 03/14/1998 FY97: $0 Total: $243,689
Prin. Invest.: C L SARAZIN
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2924 UNIVERSITY OF VIRGINIA **9600**
TORSIONAL BUCKLING TESTS OF A SIMULATED SOLAR ARRAY
03/28/1995 – 08/31/1996 FY97: $0 Total: $50,471
Prin. Invest.: E THORNTON
Tech. Officer: GSFC/J DECKER
CASE Category: 46 – MECHANICAL ENGR

NAG 5 3056 UNIVERSITY OF VIRGINIA **9601**
DYNAMICS OF MASS TRANSFER IN CLOSE INTERACTING BINARIES
09/01/1995 – 09/14/1998 FY97: $10,500 Total: $31,500
Prin. Invest.: J M RICHARDS
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3057 UNIVERSITY OF VIRGINIA **9602**
DYNAMICS AND EMISSION OF HOT ASTROPHYSICAL PLASMAS
09/15/1995 – 09/14/1997 FY97: $96,000 Total: $288,000
Prin. Invest.: C L SARAZIN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3058 UNIVERSITY OF VIRGINIA **9603**
NUMERICAL MHD STUDIES OF ACCRETION DISKS
09/25/1995 – 09/30/1997 FY97: $60,000 Total: $120,000
Prin. Invest.: J F HAWLEY
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3112 UNIVERSITY OF VIRGINIA **9604**
REMOTE SENSING AND MODELING OF THE CANOPY STRUC- TURE OF DECIDUOUS FORESTS
10/26/1995 – 10/31/1997 FY97: $12,000 Total: $24,000
Prin. Invest.: H H SHUGART, JR.
Tech. Officer: GSFC/D J HARDING
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3308 UNIVERSITY OF VIRGINIA **9605**
B2 1028+313 AND ABELL 1030: A QUASAR IN THE CENTER OF A CLUSTER COOLING FLOW
07/24/1996 – 01/31/1998 FY97: $0 Total: $7,600
Prin. Invest.: C SARAZIN
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 3342 UNIVERSITY OF VIRGINIA **9606**
FAR-INFRARED EMISSION FROM THE CORES OF RICH CLUST ERS
08/09/1996 – 08/14/1998 FY97: $0 Total: $47,950
Prin. Invest.: C J COX
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3428 UNIVERSITY OF VIRGINIA **9607**
A LOCAL PERSPECTIVE ON GALAXY EVOLUTION IN THE EARTH
09/19/1996 – 04/30/1997 FY97: $0 Total: $201,900
Prin. Invest.: R W O'CONNELL
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3633 UNIVERSITY OF VIRGINIA **9608**
CHARGED PARTICLE INDUCED ALTERATIONS OF SURFACES I
03/13/1997 – 01/31/1998 FY97: $30,000 Total: $30,000
Prin. Invest.: R E JOHNSON
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3931 UNIVERSITY OF VIRGINIA **9609**
EROSIONAL PROCESSES ON MARS
03/12/1997 – 02/28/1998 FY97: $56,600 Total: $56,600
Prin. Invest.: A D HOWARD
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3973 UNIVERSITY OF VIRGINIA **9610**
ADVANCED COMPUTATIONAL METHODS FOR THE NUMERICAL S METEOROLOGICAL FLOW PROBLEMS
03/03/1997 – 01/31/1998 FY97: $99,830 Total: $99,830
Prin. Invest.: J J DORNING
Tech. Officer: GSFC/K H BERGMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4192 UNIVERSITY OF VIRGINIA **9611**
ION COLLISON PROCESSES:PLASMA INTERACTIONS WITH AN NEUTRAL CORONA
04/10/1997 – 03/31/1998 FY97: $80,929 Total: $80,929
Prin. Invest.: D E JOHNSON
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4283 UNIVERSITY OF VIRGINIA **9612**
EROSION AND ALTERATION OF INTERSTELLAR AND INTERPL
04/07/1997 – 05/31/1998 FY97: $38,000 Total: $38,000
Prin. Invest.: D E JOHNSON
Tech. Officer: GSFC/D BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4332 UNIVERSITY OF VIRGINIA **9613**
SUBLIMATION AND OPTICAL PROPERTIES OF ICES AT LOW TO SOLAR SYSTEM OBJECTS
04/30/1997 – 03/31/1998 FY97: $45,000 Total: $45,000
Prin. Invest.: D A BARAGIOLA
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4368 UNIVERSITY OF VIRGINIA **9614**
FIRST YEAR OF TECHNICAL PROPOSAL, LAND–COVER/LAND–
05/02/1997 – 03/31/1998 FY97: $149,428 Total: $149,428
Prin. Invest.: C O JUSTICE
Tech. Officer: GSFC/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4516 UNIVERSITY OF VIRGINIA **9615**
CLUSTER DARK MATTER DENSITY PROFILES AT VERY LARGE OF CLUSTER COOLING FLOWS: SPECTRAL EVIDENCE FOR C
08/19/1997 – 08/31/1998 FY97: $48,300 Total: $48,300
Prin. Invest.: C L SARAZIN*Prin. Invest.:* NONE
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 4600 UNIVERSITY OF VIRGINIA **9616**
MAGNETOHYDRODYNAMICS OF THE SOLAR NEBULA
05/14/1997 – 05/31/1998 FY97: $55,602 Total: $55,602
Prin. Invest.: S A BALBUS
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4651 UNIVERSITY OF VIRGINIA **9617**
ALTERATIONS OF PLANETARY MATERIALS BY PHOTON AND P
06/27/1997 – 05/31/1998 FY97: $55,000 Total: $55,000
Prin. Invest.: D BARAGIOLA
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4750 UNIVERSITY OF VIRGINIA **9618**
REDESIGN OF SWAS SUBHARMONIC MIXERS USING PLANAR S
06/17/1997 – 11/30/1997 FY97: $38,000 Total: $38,000
Prin. Invest.: J HESLER
Tech. Officer: GSFC/G CHIN
CASE Category: 11 – ASTRONOMY

NAG 5 4779 UNIVERSITY OF VIRGINIA **9619**
AQUARIUS
06/18/1997 – 05/31/1998 FY97: $96,212 Total: $96,212
Prin. Invest.: M GARSTANG
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4787 UNIVERSITY OF VIRGINIA **9620**
TWILIGHT OF THE GODS: THE MASSIVE, LONG PERIOD, AC VV CEPHEI ENTERS ECLIPSE
06/26/1997 – 06/30/1998 FY97: $6,400 Total: $6,400
Prin. Invest.: C SARAZIN
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 6043 UNIVERSITY OF VIRGINIA **9621**
EFFECTS OF THE DEVELOPMENT OF THE BAIKAL–AMUR MAIN PATTERNS OF BOREAL FOREST COVER AND CARBON FLUXES
07/23/1997 – 07/31/1998 FY97: $78,813 Total: $78,813
Prin. Invest.: H SHUGART
Tech. Officer: GSFC/A JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6084 UNIVERSITY OF VIRGINIA **9622**
SUPERCONDUCTOR AND SEMICONDUCTOR RESEARCH FOR NASA WAVELENGTH MISSIONS
08/08/1997 – 09/30/1997 FY97: $40,000 Total: $40,000
Prin. Invest.: D W CROWE
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 6279 UNIVERSITY OF VIRGINIA **9623**
GLOBAL VEGETATION DYNAMICS
09/12/1997 – 08/31/1998 FY97: $74,455 Total: $74,455
Prin. Invest.: H H SHUGART
Tech. Officer: GSFC/D WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6351 UNIVERSITY OF VIRGINIA **9624**
VEMAP PHASE II.
09/12/1997 – 05/31/1998 FY97: $97,958 Total: $97,958
Prin. Invest.: T SMITH
Tech. Officer: GSFC/A JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6384 UNIVERSITY OF VIRGINIA **9625**
THE COUPLING LAND-USE AND LAND-COVER CHANGES, AND MIOMBO WOODLANDS
09/26/1997 – 08/31/2000 FY97: $284,115 Total: $284,115
Prin. Invest.: P DESANKER
Tech. Officer: GSFC/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 9 823 UNIVERSITY OF VIRGINIA **9626**
MICROGRAVITY SIMULATED PROSTATE CELL CULTURE
09/22/1995 – 09/24/1998 FY97: $145,846 Total: $541,846
Prin. Invest.: L K CHUNG, PH.D, H E ZHAY, PH.D.
Tech. Officer: JSC/N PELLIS
CASE Category: 56 – MEDICL

NAGW 461 UNIVERSITY OF VIRGINIA **9627**
COLLISIONS OF IMPORTANCE IN THE IO PLASMA TONS
09/01/1983 – 06/30/1997 FY97: $88,341 Total: $639,079
Prin. Invest.: R E JOHNSON
Tech. Officer: HQ/J T BERGSTRALH, HQ/W L QUAIDE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 1692 UNIVERSITY OF VIRGINIA **9628**
INTELLIGENT PROCESSING OF MATERIALS FOR DESIGN & MANUFACTURING
03/17/1989 – 06/30/1997 FY97: $0 Total: $8,879,092
Prin. Invest.: H N WADLEY, T H COURTNEY, J A WERT
Tech. Officer: HQ/S L VENNERI, HQ/T CROOKER
CASE Category: 47 – METAL & MATERIALS ENGR

NAGW 3021 UNIVERSITY OF VIRGINIA **9629**
ADVANCED COMPUTATIONAL METHODS FOR THE NUMERICAL S OLUTION TO METEOROLOGICAL FLOW PROBLEMS
03/30/1992 – 06/30/1997 FY97: $0 Total: $365,000
Prin. Invest.: J J DORNING
Tech. Officer: HQ/K H BERGMAN, HQ/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3954 UNIVERSITY OF VIRGINIA **9630**
"CHARGING OF INTERPLANETARY GRAINS"
04/20/1994 – 06/30/1997 FY97: $0 Total: $189,000
Prin. Invest.: R R BARAGIOLA
Tech. Officer: HQ/E C WHIPPLE, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 3959 UNIVERSITY OF VIRGINIA **9631**
SUBLIMATION & OPTICAL PROPERTIES OF ICES AT LOW TEMPS RELEVANT TO SOLAR SYSTEM OBJECTS
04/28/1994 – 08/31/1997 FY97: $0 Total: $108,000
Prin. Invest.: R BARAGIOLA
Tech. Officer: HQ/R WILLIAMS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4007 UNIVERSITY OF VIRGINIA **9632**
SCHOTTKY VARACTOR ELEMENTS FOR NASA
05/14/1994 – 06/30/1997 FY97: $0 Total: $228,113
Prin. Invest.: T W CROWE
Tech. Officer: HQ/L J CAROFF, HQ/L J CAROFF
CASE Category: 11 – ASTRONOMY

NAGW 4028 UNIVERSITY OF VIRGINIA **9633**
AN INVESTIGATION OF PLANETISMAL FORMATION
06/03/1994 – 03/02/1996 FY97: –$26 Total: $39,974
Prin. Invest.: R JOHNSON
Tech. Officer: HQ/P ROGERS
CASE Category: 11 – ASTRONOMY

NAGW 4029 UNIVERSITY OF VIRGINIA **9634**
EROSION AND ALTERATION OF INTERSTELLAR AND INTERPL ANETARY GRAINS
06/03/1994 – 05/31/1997 FY97: $0 Total: $115,152
Prin. Invest.: R JOHNSON
Tech. Officer: HQ/P ROGERS
CASE Category: 11 – ASTRONOMY

NAGW 4106 UNIVERSITY OF VIRGINIA **9635**
LOCAL PERSPECTIVE ON GALAXY EVOLUTION
08/09/1994 – 06/30/1997 FY97: $0 Total: $192,861
Prin. Invest.: P R O'CONNELL
Tech. Officer: HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 4310 UNIVERSITY OF VIRGINIA **9636**
CHARGED PARTICLE INDUCED ALTERATIONS OF SURFACES I N THE SOLAR SYSTEM
02/20/1995 – 11/30/1997 FY97: $0 Total: $60,000
Prin. Invest.: R JOHNSON
Tech. Officer: HQ/H BRINTON
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 4431 UNIVERSITY OF VIRGINIA **9637**
MAGNETOHYDRODYNAMICS OF THE SOLAR NEBULA
06/08/1995 – 09/30/1997 FY97: $0 Total: $112,590
Prin. Invest.: S BALBUS
Tech. Officer: HQ/P G ROGERS
CASE Category: 11 – ASTRONOMY

NAGW 4588 UNIVERSITY OF VIRGINIA **9638**
CARBON CYCLING IN SOUTHERN AFRICAN SAVANNAS: A CO LLABORATIVE PROPOSAL
06/28/1995 – 06/30/1998 FY97: $0 Total: $213,911
Prin. Invest.: H SHUGART, C J TUCKER, C JUSTICE
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4997 UNIVERSITY OF VIRGINIA **9639**
EROSIONAL PROCESSES ON MARS
03/12/1996 – 02/28/1997 FY97: $0 Total: $56,600
Prin. Invest.: A D HOWARD
Tech. Officer: HQ/H BRINTON, HQ/J RAHE
CASE Category: 13 – PHYSICS

NAGW 5091 UNIVERSITY OF VIRGINIA **9640**
ALTERATIONS OF PLANETARY MATERIALS
07/12/1996 – 06/30/1997 FY97: $0 Total: $61,000
Prin. Invest.: B BARAGIOLA
Tech. Officer: HQ/J NUTH
CASE Category: 13 – PHYSICS

NAGW 5196 UNIVERSITY OF VIRGINIA **9641**
VEMAP PHASE II
09/26/1996 – 05/31/1997 FY97: $95,808 Total: $95,808
Prin. Invest.: T M SMITH
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 1 20301 UNIVERSITY OF VIRGINIA **9642**
MATLS SCIENCE, HIGH PERF NUMERCIAL PROCESS'G & NUM AEROSC'S, AEROSP. ENGRG AND OP ANAL & RESEARCH
03/30/1995 – 03/30/1998 FY97: $37,571 Total: $90,776
Prin. Invest.: G L CAHEN, JR.*Prin. Invest.:* NONE
Tech. Officer: LARC/C V ECKSTROM
CASE Category: 41 – AERONAUTICAL ENGNR

NAS 3 27418 UNIVERSITY OF VIRGINIA **9643**
COST MODELS FOR MMC MANUFACTURING PROCESS
10/19/1994 – 07/14/1996 FY97: $0 Total: $119,081
Prin. Invest.: D M ELZEY, H N WADLEY
Tech. Officer: LERC/D W PETRASEK
CASE Category: 47 – METAL & MATERIALS ENGR

NAS 3 96052 UNIVERSITY OF VIRGINIA **9644**
HOTFGM–CYLINDER:COUPLED MICRO–MACROSTRUCTURAL THEO RY/ RESPONSE CYLINDRICAL FUNC. TRADED STRUC. COMP.
10/30/1996 – 10/29/1997 FY97: $72,942 Total: $72,942
Prin. Invest.: M PINDERA, J ABUNDI
Tech. Officer: LERC/S ARNOLD
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 1 173 UNIVERSITY OF VIRGINIA **9645**
AN INTEGRATED DESIGN METHODOLOGY BASED ON THE VHSIC HARDWARE DESCRIPTION LANGUAGE
03/16/1993 – 05/31/1996 FY97: –$2 Total: $74,999
Prin. Invest.: B W JOHNSON, J H AYLOR
Tech. Officer: LARC/C R ELKS
CASE Category: 22 – COMPUTER SCIENCE

NCC 1 197 UNIVERSITY OF VIRGINIA **9646**
DESIGN FABRICATION AND TESTING OF NANOSCALE, ULTRA HIGH FREQUENCY METAL–SEMICONDUCTOR–METALPHOTO...
07/29/1994 – 10/31/1996 FY97: $0 Total: $43,000
Prin. Invest.: E TOWE
Tech. Officer: LARC/J A NCADOO, LARC/S P SANDFORD
CASE Category: 45 – ELECTRICAL ENGR

NCC 1 210 UNIVERSITY OF VIRGINIA **9647**
FAULT–TREE MODELS FOR SYSTEM–LEVEL DEPENDABILITY ANALYSIS
03/20/1995 – 03/19/1997 FY97: –$6 Total: $131,024
Prin. Invest.: J B DUGAN
Tech. Officer: LARC/H A ROELANT, LARC/V WESSEL
CASE Category: 49 – ENGINEERING, OTHER

NCC 1 237 UNIVERSITY OF VIRGINIA **9648**
NASA–VIRGINIA CONSORTIUM OF ENGINEERING AND SCIENCE UNIVERSITIES PH.D RESEARCH ASSISTANTSHIP
07/16/1996 – 07/31/1998 FY97: $27,000 Total: $163,615
Prin. Invest.: D CHESTNUTT
Tech. Officer: LARC/S E MASSENBERG, LARC/E J PRIOR
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 1 263 UNIVERSITY OF VIRGINIA **9649**
CENTER FOR ADVANCED COMPUTATIONAL TECHNOLOGY MY 1/3
08/20/1997 – 06/30/1998 FY97: $300,000 Total: $300,000
Prin. Invest.: A K NOORE
Tech. Officer: LARC/J MALONE
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 925 UNIVERSITY OF VIRGINIA **9650**
PERCEPTION BASED TECHNIQUES FOR IMPROVING COMPUTER –GENERATED IMAGERY
08/25/1995 – 03/31/1998 FY97: $86,576 Total: $259,524
Prin. Invest.: D R PROFFITT, R PAUSCH
Tech. Officer: ARC/M K KAISER
CASE Category: 69 – PSYCHOLOGY, OTHER

NCC 3 532 UNIVERSITY OF VIRGINIA **9651**
SATELLITE TELEMAMMOGRAPHY NETWORK EXPERIMENT RESEA RCH PROJECT
01/16/1997 – 09/30/1997 FY97: $12,000 Total: $12,000
Prin. Invest.: S J DWYER
Tech. Officer: LERC/D TRAN
CASE Category: 45 – ELECTRICAL ENGR

NCC 5 79 UNIVERSITY OF VIRGINIA **9652**
MICROGRAVITY NUCLEATION AND PARTICLE COAGULATION EXPERIMENT SUPPORT
10/06/1994 – 12/31/1997 FY97: $34,016 Total: $91,026
Prin. Invest.: L U LILLELEHT
Tech. Officer: GSFC/J A NUTH, GSFC/J E ALLEN
CASE Category: 11 – ASTRONOMY

NCCW 11 UNIVERSITY OF VIRGINIA **9653**
CENTER FOR COMPUTATIONAL STRUCTURES TECHNOLOGY
07/12/1990 – 06/30/1997 FY97: $0 Total: $2,307,955
Prin. Invest.: A K NOOR
Tech. Officer: HQ/S L VENNERI
CASE Category: 49 – ENGINEERING, OTHER

NGT 30241 UNIVERSITY OF VIRGINIA **9654**
GLOBAL CHANGE FELLOWSHIP PROGRAM
10/06/1994 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: G HORNBERGER
Tech. Officer: HQ/J S THEON, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 51055 UNIVERSITY OF VIRGINIA **9655**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/25/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: N NANDHAKUMAR
Tech. Officer: HQ/J T LYNCH
CASE Category: 45 – ELECTRICAL ENGR

NGT 51063 UNIVERSITY OF VIRGINIA **9656**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/01/1993 – 06/30/1996 FY97: –$67 Total: $65,933
Prin. Invest.: J J DORNING
Tech. Officer: HQ/G LESANE
CASE Category: 13 – PHYSICS

NGT 51068 UNIVERSITY OF VIRGINIA **9657**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/15/1993 – 06/30/1996 FY97: –$91 Total: $65,909
Prin. Invest.: E TOWE
Tech. Officer: HQ/G LASANE
CASE Category: 45 – ELECTRICAL ENGR

NGT 51094 UNIVERSITY OF VIRGINIA **9658**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
07/07/1993 – 09/30/1996 FY97: –$859 Total: $65,141
Prin. Invest.: L U LILLELEHET
Tech. Officer: GSFC/M BURRELL
CASE Category: 43 – CHEMICAL ENGR

NGT 51114 UNIVERSITY OF VIRGINIA **9659**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/27/1993 – 06/30/1996 FY97: –$7 Total: $65,993
Prin. Invest.: E A THORNTON
Tech. Officer: LARC/E J PRIOR
CASE Category: 49 – ENGINEERING, OTHER

NGT 51163 UNIVERSITY OF VIRGINIA **9660**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/22/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: A S GRIMSHAW
Tech. Officer: HQ/P HUNTER
CASE Category: 22 – COMPUTER SCIENCE

NGT 51221 UNIVERSITY OF VIRGINIA **9661**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/16/1994 – 10/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: J J DORNING
Tech. Officer: HQ/A NOVOTNY
CASE Category: 49 – ENGINEERING, OTHER

NGT 51326 UNIVERSITY OF VIRGINIA **9662**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/28/1994 – 12/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: T W CROWE
Tech. Officer: HQ/D HOLLAND
CASE Category: 45 – ELECTRICAL ENGR

NGT 51390 UNIVERSITY OF VIRGINIA **9663**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/23/1995 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: P W VOORHEES
Tech. Officer: HQ/G LESANE
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 51396 UNIVERSITY OF VIRGINIA **9664**
GSRP
06/23/1995 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: T W CROWE
Tech. Officer: JPL/C HICKS
CASE Category: 45 – ELECTRICAL ENGR

NGT 70336 UNIVERSITY OF VIRGINIA **9665**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
07/05/1993 – 06/30/1996 FY97: –$3,417 Total: $62,583
Prin. Invest.: E TOWE
Tech. Officer: HQ/D K RUSSELL
CASE Category: 45 – ELECTRICAL ENGR

NGT 70365 UNIVERSITY OF VIRGINIA **9666**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
09/08/1993 – 05/31/1996 FY97: –$2,815 Total: $48,135
Prin. Invest.: D BALL
Tech. Officer: HQ/D K RUSSELL
CASE Category: 79 – SOCIAL SCIENCE, OTHER

NGT 70404 UNIVERSITY OF VIRGINIA **9667**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
11/07/1994 – 12/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: W A JESSER
Tech. Officer: HQ/D K RUSSELL
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 1 52100 UNIVERSITY OF VIRGINIA **9668**
GRADUATE STUDENT RESEARCHER PROGRAM (GSRP)
06/13/1995 – 06/30/1998 FY97: $10,000 Total: $54,000
Prin. Invest.: B L FARMER, J A YOUNG
Tech. Officer: LARC/J A HINKLEY, LARC/T S GATES
CASE Category: 12 – CHEMISTRY

NGT 1 52101 UNIVERSITY OF VIRGINIA **9669**
GRADUATE STUDENT RESEARCHER PROGRAM (GSRP)
06/13/1995 – 06/30/1998 FY97: $1 Total: $44,001
Prin. Invest.: E A WEST, A S GRIMSHAW
Tech. Officer: LARC/D RUDY, LARC/J REHDER
CASE Category: 22 – COMPUTER SCIENCE

NGT 1 52110 UNIVERSITY OF VIRGINIA **9670**
GRADUATE STUDENT RESEARCHER PROGRAM (GSRP)
06/26/1995 – 06/30/1998 FY97: $10,000 Total: $54,000
Prin. Invest.: E A THORNTON
Tech. Officer: LARC/M D RHODES
CASE Category: 42 – ASTRONAUTICAL ENGR

NGT 1 52116 UNIVERSITY OF VIRGINIA **9671**
GRADUATE STUDENT RESEARCHER PROGRAM
06/27/1995 – 10/31/1997 FY97: $1 Total: $44,001
Prin. Invest.: E DERVIS
Tech. Officer: LARC/R R ANTCLIFF
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 1 52117 UNIVERSITY OF VIRGINIA **9672**
GRADUATE STUDENT RESEARCHER PROGRAM
06/27/1995 – 06/30/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: L P TROEGER
Tech. Officer: LARC/T T BALES
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 2 52203 UNIVERSITY OF VIRGINIA **9673**
EFFECTS OF CABIN UPSETS ON ABSORPTION COLUMNS FOR AIR REVITALIZATION: MODELING & EXPERIMENTS
09/14/1995 – 08/31/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: M D LEVAN, W S APPE
Tech. Officer: ARC/J E FINN
CASE Category: 43 – CHEMICAL ENGR

NGT 3 52315 UNIVERSITY OF VIRGINIA **9674**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/01/1996 – 06/30/1998 FY97: $23,833 Total: $29,333
Prin. Invest.: J M HOWE
Tech. Officer: LERC/D MONTEGANI
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 5 50062 UNIVERSITY OF VIRGINIA **9675**
APPROACHES FOR IMPROVING ACCESS TO NASA'S SCIENTIF
08/04/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J FRENCH
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 5 50118 UNIVERSITY OF VIRGINIA **9676**
FABRICATION OF PLANARGAAS SCHOTTKY MIXER DIODES FO S
09/06/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: T W CROWE
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 1 343 VA POLYTECHNIC INST & ST UNIV **9677**
NASA MATERIALS SCIENCE AND ENGINEERING PROGRAM
03/04/1983 – 08/31/1997 FY97: $43,686 Total: $9,642,870
Prin. Invest.: F W STEPHENSON
Tech. Officer: LARC/D R TENNEY, LARC/R T SWANN
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 537 VA POLYTECHNIC INST & ST UNIV **9678**
POSTBUCKLING & CRIPPLING OF GRAPHITE–EPOXY CHANNEL & ZEESECTION COLUMNS
10/31/1984 – 12/31/1997 FY97: $55,001 Total: $547,516
Prin. Invest.: E R JOHNSON
Tech. Officer: LARC/J H STARNES, JR
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 643 VA POLYTECHNIC INST & ST UNIV **9679**
DESIGN OF ANISOTROPIC PLATES FOR IMPROVED DAMAGE T OLERANCE
02/12/1986 – 12/31/1997 FY97: $92,001 Total: $570,149
Prin. Invest.: Z GURDAL
Tech. Officer: LARC/J H STARNES, LARC/M J SHUART
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1160 VA POLYTECHNIC INST & ST UNIV **9680**
VARIABLE COMPLEXITY DESIGN STRATEGY APPLIED TO SUPERSONIC WING DESIGN.
06/26/1990 – 10/15/1997 FY97: $40,001 Total: $400,769
Prin. Invest.: B GROSSMAN, W MASON, R HAFTKA
Tech. Officer: LARC/P G COEN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1363 VA POLYTECHNIC INST & ST UNIV **9681**
OPTICAL DISTRIBUTED SENSOR FOR FEEDBACK CONTROL
01/27/1992 – 08/01/1996 FY97: $1 Total: $260,001
Prin. Invest.: G INDEBETOUW, D K LINDNER
Tech. Officer: LARC/S S WELCH
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 1 1449 VA POLYTECHNIC INST & ST UNIV **9682**
AIRPLANE CONTROL ALLOCATION STUDY – NLPN 92–435
08/07/1992 – 08/06/1998 FY97: $195,233 Total: $422,906
Prin. Invest.: W C DURHAM
Tech. Officer: LARC/J V FOSTER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1466 VA POLYTECHNIC INST & ST UNIV **9683**
ADJOINT METHODS FOR AERODYNAMIC WING DESIGN
12/11/1992 – 01/15/1996 FY97: $0 Total: $105,109
Prin. Invest.: B GROSSMAN, R P NARDUCCI
Tech. Officer: LARC/M D SALAS, LARC/T A ZANG
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1539 VA POLYTECHNIC INST & ST UNIV **9684**
FLOW STRUCTURE GENERATED BY PERPENDICULAR BLADE VO RTEX INTERACTION AND IMPLICATIONSFOR HELICOPTER
10/21/1993 – 01/18/1997 FY97: $25,001 Total: $207,655
Prin. Invest.: W J DEVENPORT, S A GLEGG
Tech. Officer: LARC/T F BROOKS, LARC/C L BURTLEY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1562 VA POLYTECHNIC INST & ST UNIV **9685**
VARIABLE–COMPLEXITY MULTIDISCIPLINARY OPTIMIZATION ON PARALLEL COMPUTERS
12/07/1993 – 12/31/1997 FY97: $65,057 Total: $599,522
Prin. Invest.: B GROSSMAN, R T HAFTKA, W H MASON
Tech. Officer: LARC/P A NEWMAN, LARC/P G COEM
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1573 VA POLYTECHNIC INST & ST UNIV **9686**
FLIGHT CONTROL REQUIREMENTS FOR HIGH SPEED TRANSPORT AIRCRAFT
01/13/1994 – 02/15/1997 FY97: $23,579 Total: $246,223
Prin. Invest.: M R ANDERSON, W H MASON
Tech. Officer: LARC/M R WASZAK, LARC/C S BUTTRILL
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1598 VA POLYTECHNIC INST & ST UNIV **9687**
TROPOSPHERIC CHEMISTRY – DEVLOPING AND UTILIZING COMPREHENSIVE THREE–DIMENSIONAL CHEMISTRY/TROPOSPH
02/28/1994 – 02/23/1996 FY97: –$8,682 Total: $989
Prin. Invest.: L K PETERS
Tech. Officer: LARC/H G REICHLE, JR., LARC/V S CONNORS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1622 VA POLYTECHNIC INST & ST UNIV **9688**
DETERMINATION OF STRESS INTENSITY FACTOR DISTRIBUTIONS FOR INTERFACE CRACKS IN INCOMPRESSIB
05/20/1994 – 12/31/1997 FY97: $1 Total: $77,498
Prin. Invest.: C W SMITH
Tech. Officer: LARC/C E HARRIS, LARC/J C NEWMAN
CASE Category: 46 – MECHANICAL ENGR

NAG 1 1640 VA POLYTECHNIC INST & ST UNIV **9689**
A SYSTEMS APPROACH TO EVALUATION OF INFLIGHT CALIBRATION AND DATA REDUCTION FOR CHANNELS
08/25/1994 – 08/31/1996 FY97: $1 Total: $151,510
Prin. Invest.: J R MAHAN
Tech. Officer: LARC/R B LEE III, LARC/J E NEALY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1657 VA POLYTECHNIC INST & ST UNIV **9690**
12 INCH ACOUSTIC FAN RESEARCH
12/07/1994 – 12/06/1997 FY97: $85,001 Total: $266,180
Prin. Invest.: R H THOMAS
Tech. Officer: LARC/C H GERHOLD
CASE Category: 46 – MECHANICAL ENGR

NAG 1 1681 VA POLYTECHNIC INST & ST UNIV **9691**
STRUCTURAL ACOUSTIC CHARACTERISTICS OF AIRCRAFT AN D ACTIVE CONTROL FOR INTERIOR NOISE REDUCTION
01/23/1995 – 01/22/1998 FY97: $212,076 Total: $585,722
Prin. Invest.: C R FULLER
Tech. Officer: LARC/H C LESTER, LARC/R J SILOX
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1682 VA POLYTECHNIC INST & ST UNIV **9692**
THE EVOLUTION OF AN ACOUSTIC DISTURBANCE UP TO TRANSITION IN THE BOUNDARY LAYER ON AN AIRFOIL
01/13/1995 – 11/12/1997 FY97: $30,501 Total: $94,327
Prin. Invest.: J A SCHETZ
Tech. Officer: LARC/R WLEZIEN, LARC/A KUMAR
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1683 VA POLYTECHNIC INST & ST UNIV **9693**
DIAGNOSTICS AND ACTIVE CONTROL OF AIRCRAFT NOISE
01/12/1995 – 01/14/1998 FY97: $109,511 Total: $308,321
Prin. Invest.: C R FULLER
Tech. Officer: LARC/K H LYLE, LARC/R J SILOX
CASE Category: 46 – MECHANICAL ENGR

NAG 1 1689 VA POLYTECHNIC INST & ST UNIV **9694**
NON–LINEAR MODELING AND STABILITY ANALYSES OF ANISOTROPIC SANDWICH PANELS EXPOSED TOCOMPLEX
02/06/1995 – 02/05/1998 FY97: $30,001 Total: $111,663
Prin. Invest.: L LIBRESCU
Tech. Officer: LARC/C J CAMARDA, LARC/M L BLOSSER
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 1 1737 VA POLYTECHNIC INST & ST UNIV **9695**
DYNAMIC WIND TUNNEL TESTS MY 1/3
07/13/1995 – 05/14/1998 FY97: $225,543 Total: $445,962
Prin. Invest.: F H LUTZE
Tech. Officer: LARC/S B GRAFTON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1801 VA POLYTECHNIC INST & ST UNIV **9696**
TURBULENCE MEASUREMENTS AND COMPUTATIONS FOR THE PREDICTION OF BROADBAND NOISE IN HIGH BYPASS
01/30/1996 – 01/31/1998 FY97: $110,395 Total: $206,335
Prin. Invest.: W J DEVENPORT, J MOORE
Tech. Officer: LARC/J W POSER, LARC/C H GERHOLD
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1818 VA POLYTECHNIC INST & ST UNIV **9697**
DEVELOPMENT OF AN ADJOINT–VARIABLE METHOD FOR UNST RUCTURED CFD TOOLS
04/01/1996 – 08/15/1997 FY97: $12,001 Total: $34,618
Prin. Invest.: R W WALTERS
Tech. Officer: LARC/J L THOMAS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1827 VA POLYTECHNIC INST & ST UNIV **9698**
INVESTIGATION OF A SYSTEM FOR INFLIGHT MONITORING OF AERODYNAMIC PERFORMED
04/09/1996 – 05/15/1997 FY97: $1 Total: $29,926
Prin. Invest.: J A SCHETZ
Tech. Officer: LARC/R W WLEZEIN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1851 VA POLYTECHNIC INST & ST UNIV **9699**
AIRCRAFT NONLINEAR DYNAMICS STUDIES
06/26/1996 – 07/31/1998 FY97: $77,245 Total: $152,035
Prin. Invest.: F H LUTZE, W H MASON
Tech. Officer: LARC/J V FOSTER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1852 VA POLYTECHNIC INST & ST UNIV **9700**
MULTIDISCIPLINARY DESIGHN INVESTIGATION OF TRUSS– BRACED AIRCRAFT
06/27/1996 – 06/26/1998 FY97: $100,001 Total: $200,001
Prin. Invest.: B CROSSMAN, R K KAPANIA, W H MASON
Tech. Officer: LARC/S C ASBURY, LARC/B L BERRIER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1881 VA POLYTECHNIC INST & ST UNIV **9701**
RESIN FILM INFUSION (RFI) PROCESS MODELING FOR LARGE TRANSPORT AIRCRAFT WING STRUCTURES
11/22/1996 – 11/30/1997 FY97: $162,187 Total: $162,187
Prin. Invest.: A C LOOS
Tech. Officer: LARC/H B DEXTTER
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 1884 VA POLYTECHNIC INST & ST UNIV **9702**
EFFICIENT ANALYSIS OF COMPLEX STRUCTURES USING NEURAL NETWORKS
12/17/1996 – 12/31/1997 FY97: $50,944 Total: $50,944
Prin. Invest.: R K KAPANIA
Tech. Officer: LARC/J T WANG
CASE Category: 46 – MECHANICAL ENGR

NAG 1 1895 VA POLYTECHNIC INST & ST UNIV **9703**
THE NASA–VIRGINIA TECH COMPOSITE PROGRAM: INVESTIGATION OF COMPOSITE STRUCTURES
01/29/1997 – 05/15/1998 FY97: $67,813 Total: $67,813
Prin. Invest.: M W HYER
Tech. Officer: LARC/J H STAMES
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1912 VA POLYTECHNIC INST & ST UNIV **9704**
MICROCRACKING OF MATERIALS FOR SPACE
04/01/1997 – 09/30/1997 FY97: $12,186 Total: $12,186
Prin. Invest.: M HYES
Tech. Officer: LARC/H G MAAHS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1942 VA POLYTECHNIC INST & ST UNIV **9705**
TURBULENCE IN HELICOPTER ROTOR FLOWS AND THE MECHA NISM OF NOISE PRODUCTION
06/04/1997 – 06/03/1998 FY97: $65,000 Total: $65,000
Prin. Invest.: W J DEVENPORT
Tech. Officer: LARC/C L BURLEY, LARC/T F BROOKS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1953 VA POLYTECHNIC INST & ST UNIV **9706**
INTELLIGENT PROCESSING OF MATERIALS
08/13/1997 – 01/31/1998 FY97: $150,000 Total: $150,000
Prin. Invest.: H N WADLEY
Tech. Officer: HQ/C MOORE
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 1958 VA POLYTECHNIC INST & ST UNIV **9707**
IMPROVED CERES TOP-OF-THE-ATMOSPHERE, AND SURFACE RADIATIVE FLUXES
08/05/1997 – 09/30/1998 FY97: $13,190 Total: $13,190
Prin. Invest.: J R MAHAN, P W STACKHOUSE, M A HAEFFELIN
Tech. Officer: LARC/B A WIELICKI
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1959 VA POLYTECHNIC INST & ST UNIV **9708**
EARTH RADIATION MEASUREMENT SCIENCE MY 1/3
08/05/1997 – 08/15/1998 FY97: $20,775 Total: $20,775
Prin. Invest.: G L SMITH, J R MAHAN
Tech. Officer: LARC/R B LEE, III, LARC/R L HUFFMAN, JR.
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1962 VA POLYTECHNIC INST & ST UNIV **9709**
DEPOSITION OF FILMS FOR OPTIMAL GIANT MAGNETS RESI STANCE
08/21/1997 – 05/31/1998 FY97: $350,000 Total: $350,000
Prin. Invest.: H N WADLEY
Tech. Officer: LARC/B R HANKS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1964 VA POLYTECHNIC INST & ST UNIV **9710**
INTELLIGENT PROCESSING OF MATERIALS FOR DESIGN AND MANUFACTURING, ETC.
09/30/1997 – 07/31/1998 FY97: $1,616,941 Total: $1,616,941
Prin. Invest.: H N WADLEY
Tech. Officer: LARC/C MOORE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1970 VA POLYTECHNIC INST & ST UNIV **9711**
CERES VALIDATION USING CERES ERBE-LIKE AND CERES TISA DATA
09/12/1997 – 09/30/1998 FY97: $10,000 Total: $10,000
Prin. Invest.: J R MAHON
Tech. Officer: LARC/D F YOUNG
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 919 VA POLYTECHNIC INST & ST UNIV **9712**
LANDING GEAR INTEGRATION IN AIRCRAFT CONCEPTUAL DE SIGN
07/19/1994 – 09/30/1996 FY97: $0 Total: $99,408
Prin. Invest.: W H MASON
Tech. Officer: ARC/P A GELHAUSEN, ARC/S HASAN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1349 VA POLYTECHNIC INST & ST UNIV **9713**
SPACE STATION POWER SYSTEM MODELING & STABILITY AN ALYSIS
05/22/1992 – 05/31/1997 FY97: $0 Total: $1,032,376
Prin. Invest.: F C LEE, B H CHO, D SABLE
Tech. Officer: LERC/B A MANNERS
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 1539 VA POLYTECHNIC INST & ST UNIV **9714**
AEROACOUSTICS OF A TWO-DIMENSIONAL DIFURCATED SUPERSONIC INLET
09/28/1993 – 12/14/1997 FY97: $140,000 Total: $479,105
Prin. Invest.: W NG
Tech. Officer: LERC/R P WOODWARD
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1562 VA POLYTECHNIC INST & ST UNIV **9715**
CHARACTERIZATION & DEVELOPMENT OF THIN FILM HEAT F LUX SENSORS
01/14/1994 – 03/14/1997 FY97: $45,000 Total: $215,000
Prin. Invest.: S B DESU
Tech. Officer: LERC/G C FRALICK
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1667 VA POLYTECHNIC INST & ST UNIV **9716**
ADVANCED DYNAMICS SIMULATIONS
09/22/1994 – 03/21/1998 FY97: $30,000 Total: $128,844
Prin. Invest.: W F OBRIEN
Tech. Officer: LERC/A R OWEN
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 2031 VA POLYTECHNIC INST & ST UNIV **9717**
NOVEL CONDUCTING OXIDE MATERIALS FOR HIGH TEMPERAT URE SENSOR APPLICATIONS
04/08/1997 – 09/30/1997 FY97: $53,000 Total: $53,000
Prin. Invest.: S B DESU
Tech. Officer: LERC/G C FRALICK
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 2061 VA POLYTECHNIC INST & ST UNIV **9718**
AEROACOUSTICS OF SUPERSONIC INLETS
08/11/1997 – 05/31/1998 FY97: $70,000 Total: $70,000
Prin. Invest.: W F NG
Tech. Officer: LERC/R P WOODWARD
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 5099 VA POLYTECHNIC INST & ST UNIV **9719**
UNDERSTANDING SIGMA NAUGHT BLOOMS AND THEIR EFFECTS ON RADAR ALTIMETERS
12/11/1996 – 11/30/1997 FY97: $33,800 Total: $33,800
Prin. Invest.: G E BROWN
Tech. Officer: GSFC/G E KAYNE
CASE Category: 33 – OCEANOGRAPHY

NAGW 4241 VA POLYTECHNIC INST & ST UNIV **9720**
ADVANCED DESIGN PROGRAM
01/27/1995 – 12/31/1996 FY97: $0 Total: $17,350
Prin. Invest.: A JAKUBOWSKI
Tech. Officer: HQ/A S MCGEE
CASE Category: 49 – ENGINEERING, OTHER

NAS 1 19610 VA POLYTECHNIC INST & ST UNIV **9721**
RESEARCH IN AERODYNAMICS, CHEMISTRY, INSTRUMENTATI ON, AND OTHER FIELDS
07/24/1992 – 07/23/1998 FY97: $301,199 Total: $3,357,458
Prin. Invest.:
Tech. Officer: LARC/E J PRIOR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAS 1 96059 VA POLYTECHNIC INST & ST UNIV **9722**
GEO-SYNCHRONOUS EARTH RADIATION BUDGET INSTRUMENT
07/30/1996 – 04/15/1997 FY97: $0 Total: $142,581
Prin. Invest.: R MAHAN
Tech. Officer: LARC/E N KIST
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 1 221 VA POLYTECHNIC INST & ST UNIV **9723**
THERMAL CHARACTERIZATION OF AEROSPACE STRUCTURES
01/24/1996 – 01/24/1998 FY97: $43,031 Total: $112,951
Prin. Invest.: E P SCOTT
Tech. Officer: LARC/K J DARYABEIGI
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 1 243 VA POLYTECHNIC INST & ST UNIV **9724**
ANALYTICAL SUPPORT OF CALIBRATION AND DATE REDUCTION PROTOCOLS FOR EARTH RADIATION BUDGET
08/21/1996 – 10/31/1997 FY97: $120,478 Total: $271,478
Prin. Invest.: J R MAHAN
Tech. Officer: LARC/R BENJAMIN LEE, III, LARC/R L HUFFMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 1 245 VA POLYTECHNIC INST & ST UNIV **9725**
AERODYNAMIC INTERACTION EFFECTS OF A HELICOPTER ROTOR AND FUSELAGE
10/30/1996 – 10/31/1997 FY97: $80,443 Total: $80,443
Prin. Invest.: R W BARNWELL, D D BOYD, JR.
Tech. Officer: LARC/S A GORTON, LARC/J D BERRY
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5036 VA POLYTECHNIC INST & ST UNIV **9726**
OPTIMIZATION OF AN ASCT WING–BODY CONFIGURATION US ING EULER EQUATIONS
02/16/1994 – 01/31/1996 FY97: $0 Total: $74,670
Prin. Invest.: R K KAPANIA
Tech. Officer: ARC/G P GURUSWAMY
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 5097 VA POLYTECHNIC INST & ST UNIV **9727**
AEROELASTIC ANALYSIS OF MODERN COMPLEX WINGS USING ENSAERO AND NASTRAN
08/29/1994 – 07/31/1997 FY97: $0 Total: $80,000
Prin. Invest.: R K KAPANIA
Tech. Officer: ARC/G P GURUSWAMY
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 10025 VA POLYTECHNIC INST & ST UNIV **9728**
NGT 10025/B VA. POLYT. INST. (MDAFP) 10/1/93 START
11/22/1993 – 10/31/1996 FY97: $0 Total: $241,446
Prin. Invest.: B GROSSMAN, R T HAFTKA, W H MASON
Tech. Officer: HQ/G S SEIDEL, HQ/J R FACEY
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 51249 VA POLYTECHNIC INST & ST UNIV **9729**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/14/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: E P SCOTT
Tech. Officer: LARC/L EVANS
CASE Category: 46 – MECHANICAL ENGR

NGT 51709 VA POLYTECHNIC INST & ST UNIV **9730**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/20/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: R W BARNWELL
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 70395 VA POLYTECHNIC INST & ST UNIV **9731**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
09/02/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: W NG, J R ARMSTRONG
Tech. Officer: HQ/D K RUSSELL
CASE Category: 46 – MECHANICAL ENGR

NGT 70399 VA POLYTECHNIC INST & ST UNIV **9732**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
07/15/1994 – 07/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: C R FULLER
Tech. Officer: LARC/R L YANG
CASE Category: 46 – MECHANICAL ENGR

NGT 90206 VA POLYTECHNIC INST & ST UNIV **9733**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/27/1993 – 08/14/1996 FY97: $0 Total: $36,000
Prin. Invest.: J NOTTINGHAM
Tech. Officer: HQ/D RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90215 VA POLYTECHNIC INST & ST UNIV **9734**
UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
09/23/1993 – 08/14/1996 FY97: $0 Total: $36,000
Prin. Invest.: J NOTTINGHAM
Tech. Officer: HQ/D K RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 1 52107 VA POLYTECHNIC INST & ST UNIV **9735**
GRADUATE STUDENT RESEARCHER PROGRAM (GSRP)
06/15/1995 – 06/30/1998 FY97: $10,001 Total: $54,001
Prin. Invest.: J L BURT, A M PRESTRUDE
Tech. Officer: LARC/A T POPE, LARC/J R COMSTOCK, JR.
CASE Category: 69 – PSYCHOLOGY, OTHER

NGT 1 52112 VA POLYTECHNIC INST & ST UNIV **9736**
GRADUATE STUDENT RESEARCHER PROGRAM
06/19/1995 – 06/30/1998 FY97: $10,000 Total: $54,000
Prin. Invest.: M W HYER
Tech. Officer: LARC/J H STARNES, JR.
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 1 52145 VA POLYTECHNIC INST & ST UNIV **9737**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
07/11/1996 – 08/14/1998 FY97: $22,001 Total: $44,001
Prin. Invest.: D M MOORE, PH.D.
Tech. Officer: LARC/R A HATHAWAY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 1 52155 VA POLYTECHNIC INST & ST UNIV **9738**
NASA MDA FELLOWSHIP PROGRAM MDA FELLOWSHIP PROGRAM
01/24/1997 – 11/30/1997 FY97: $174,056 Total: $174,056
Prin. Invest.: B GROSSMAN
Tech. Officer: LARC/J BARTHELEMY
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 1 52161 VA POLYTECHNIC INST & ST UNIV **9739**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
05/28/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J Y BEST
Tech. Officer: LARC/M D CANRIGHT
CASE Category: 41 – AERONAUTICAL ENGNR

NGT 1 52174 VA POLYTECHNIC INST & ST UNIV **9740**
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
05/29/1997 – 06/30/1998 FY97: $10,000 Total: $10,000
Prin. Invest.: J A NEWMAN
Tech. Officer: LARC/R S PIASCLK
CASE Category: 49 – ENGINEERING, OTHER

NGT 3 52304 VA POLYTECHNIC INST & ST UNIV **9741**
GRADUATE STUDENT RESEARCH PROGRAM
07/20/1995 – 08/15/1998 FY97: $22,000 Total: $52,000
Prin. Invest.: U VANDSBURGER
Tech. Officer: LERC/L SHAW
CASE Category: 46 – MECHANICAL ENGR

NGT 5 70005 VA POLYTECHNIC INST & ST UNIV **9742**
TURBINE AERODYNAMICS AND HEAT TRANSFER
09/05/1997 – 03/31/1998 FY97: $16,500 Total: $16,500
Prin. Invest.: W REID
Tech. Officer: HQ/M STOUTSENBERGER
CASE Category: 46 – MECHANICAL ENGR

NGT 5 70008 VA POLYTECHNIC INST & ST UNIV **9743**
GRADUATE STUDENTS RESEARCH PROGRAM – STUDENTS: TE
09/12/1997 – 03/31/1998 FY97: $16,500 Total: $16,500
Prin. Invest.: D NG
Tech. Officer: GSFC/M STOUTSENBERGER
CASE Category: 49 – ENGINEERING, OTHER

NGT 5 90011 VA POLYTECHNIC INST & ST UNIV **9744**
NASA UNDERGRADUATE SCHOLAR AWARDS FOR RESEARCH (US
12/19/1996 – 08/14/1997 FY97: $64,000 Total: $64,000
Prin. Invest.: J NOTTINGHAM
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 43 – CHEMICAL ENGR

NAG 1 1251 VIRGINIA COMMONWEALTH UNIVERSITY **9745**
NOVEL POLYMER SYNTHESIS
06/11/1991 – 12/31/1996 FY97: $0 Total: $278,473
Prin. Invest.: R G BASS
Tech. Officer: LARC/PM HERGENROTHER, LARC/B J JENSEN
CASE Category: 12 – CHEMISTRY

NAG 8 1276 VIRGINIA COMMONWEALTH UNIVERSITY **9746**
STUDIES ON POLYMERIZATION AND NANOPARTICLE COMPOSITES
04/25/1996 – 04/30/1997 FY97: $42,500 Total: $127,500
Prin. Invest.: S EL–SHALL
Tech. Officer: MSFC/D R WOODARD, MSFC/B G PENN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAS 9 19539 VIRGINIA COMMONWEALTH UNIVERSITY **9747**
NEUROLAB EXPERIMENT DOCUMENT FOR E–049
02/22/1996 – 09/30/1999 FY97: $165,000 Total: $340,000
Prin. Invest.: D ECKBURG
Tech. Officer: JSC/A LEE
CASE Category: 56 – MEDICL

NAS 9 19541 VIRGINIA COMMONWEALTH UNIVERSITY **9748**
AUTONOMIC MECHANISMS DURING PROLONGED WEIGHTLESSNE SS
03/14/1996 – 12/15/1999 FY97: $135,000 Total: $384,700
Prin. Invest.: H B CHERMSIDE
Tech. Officer: JSC/C M BUNTIN
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NGT 90174 VIRGINIA COMMONWEALTH UNIVERSITY **9749**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
08/27/1993 – 08/14/1996 FY97: $0 Total: $36,000
Prin. Invest.: J BERLUND
Tech. Officer: HQ/D RUSSELL
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 90029 VIRGINIA COMMONWEALTH UNIVERSITY **9750**
UNDERGRADUATE STUDENT AWARDS FOR RESEARCH/FOR UNDE CHUK-WUMA ANYADIKE
01/30/1997 – 08/14/1997 FY97: $12,000 Total: $12,000
Prin. Invest.: J BERGLUND
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 1 416 VIRGINIA STATE UNIVERSITY **9751**
SOLID STATE PHYSICS RESEARCH PROGRAM
09/15/1983 – 06/30/1996 FY97: –$4,390 Total: $1,225,193
Prin. Invest.: C E STRONACH, R I GRYNSZPAN, J J STITH
Tech. Officer: LARC/J W WILSON, LARC/W E MEADOR
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 1 765 VIRGINIA STATE UNIVERSITY **9752**
COMPUTER SIMULATION OF RADIATION DAMAGE IN SEMI– CONDUCTORS AND POLYMERS
05/27/1987 – 10/31/1997 FY97: $1 Total: $562,008
Prin. Invest.: J J STITH, J C DAVENPORT
Tech. Officer: LARC/J W WILSON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 1 1527 VIRGINIA STATE UNIVERSITY **9753**
EFFECTS OF GALACTIC COSMIC RADIATION ON SPACE MATERIALS NLPN 92–1202R
07/12/1993 – 12/31/1995 FY97: $0 Total: $77,400
Prin. Invest.: C E STRONACH
Tech. Officer: LARC/J W WILSON, LARC/E J CONWAY
CASE Category: 13 – PHYSICS

WASHINGTON

NAG 5 2908 CENTRAL WASHINGTON UNIVERSITY **9754**
KINEMATICS AND DYNAMICS OF CONTINENTAL LITHOSPHERE IN THE EASTERN CALIF. SHEARZONE: ETC...
03/14/1995 – 03/14/1997 FY97: $100,454 Total: $382,404
Prin. Invest.: M MILLER
Tech. Officer: GSFC/B G BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3826 CENTRAL WASHINGTON UNIVERSITY **9755**
SATELLITE–BASED INVESTIGATIONS OF THE TRANSITION FROM AN OCEANIC TO CONTINENTAL TRANSFORM MARGIN
12/09/1993 – 07/31/1998 FY97: $0 Total: $231,648
Prin. Invest.: M MILLER
Tech. Officer: HQ/M BALTUCK
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 4282 CENTRAL WASHINGTON UNIVERSITY **9756**
APPLICATION OF HIGH RESOLUTION TOPOGRAPHY_AND REMO TE SENSING IMAGERY
01/31/1995 – 12/31/1996 FY97: $0 Total: $65,110
Prin. Invest.: C RUBIN
Tech. Officer: HQ/M BALTUCK
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 8 1000 NORTHWEST INDIAN COLLEGE **9757**
JOVE
11/24/1993 – 09/30/1997 FY97: $0 Total: $97,704
Prin. Invest.: D BURNS, C D WESTER
Tech. Officer: MSFC/F SIX*Tech. Officer:* NONE
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAGW 3622 NORTHWEST INDIAN COLLEGE **9758**
SEAQUEST OUTDOOR LAB FOR NATIVE AMERICANS
05/28/1993 – 09/30/1996 FY97: $0 Total: $245,000
Prin. Invest.: R LORENCE
Tech. Officer: ARC/A HATCH, HQ/B WHITE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 5143 NORTHWEST INDIAN COLLEGE **9759**
NASA SEAQUEST PROGRAM
08/14/1996 – 09/30/1997 FY97: $0 Total: $98,920
Prin. Invest.: D MCDONALD
Tech. Officer: HQ/B WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5090 UNIVERSITY OF PUGET SOUND **9760**
PHOTOSYNTHESIS AND IRON TRANSFORMATIONS
06/24/1996 – 05/31/1997 FY97: $0 Total: $66,670
Prin. Invest.: B PIERSON
Tech. Officer: HQ/M MEYER, HQ/H C BRINTON
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 1 1495 UNIVERSITY OF WASHINGTON **9761**
SAFETY OF PROCESS – CONTROL SOFTWARE NLPN 93–223
04/19/1993 – 02/15/1997 FY97: $0 Total: $332,542
Prin. Invest.: N G LEVESON
Tech. Officer: LARC/D E ECKHARDT
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 1586 UNIVERSITY OF WASHINGTON **9762**
FATIGUE CRACK GROWTH IN UNSYMMETRICALLY LOADED THIN CYLINDERS NLPN 93–711
01/14/1994 – 09/30/1997 FY97: $1 Total: $153,871
Prin. Invest.: I M FYFE
Tech. Officer: LARC/J C NEWMAN JR., LARC/C E HARRIS
CASE Category: 46 – MECHANICAL ENGR

NAG 1 1628 UNIVERSITY OF WASHINGTON **9763**
CONTRIBUTIONS TO AIRPLANE CONFIGURATION AERO ELASTIC SHAPE OPTIMIZATION (MY 1/3)
05/31/1994 – 09/30/1997 FY97: $33,500 Total: $150,000
Prin. Invest.: E LIVINE
Tech. Officer: LARC/J F BARTHELEMY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1709 UNIVERSITY OF WASHINGTON **9764**
NASA COLLABORATIVE STUDIES ON THE RADIATIVE EFFECT S OF CLOUDS AND AEROSALS NLPN 95–211R
03/29/1995 – 03/31/1998 FY97: $179,000 Total: $487,000
Prin. Invest.: P V HOBBS
Tech. Officer: LARC/D S MCDOUGAL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1711 UNIVERSITY OF WASHINGTON **9765**
COORDINATED PARAMETERIZED DEVELOPMENT AND LARGE– EDDY SIMULATION FOR MARINE AND ARCTIC CLOUD . . .
03/31/1995 – 03/31/1998 FY97: $76,000 Total: $228,000
Prin. Invest.: C S BRETHERTON
Tech. Officer: LARC/D S MCDOUGAL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1732 UNIVERSITY OF WASHINGTON **9766**
FEASIBILITY OF MAPPING CLIMATE FORCING BY ANTHRO– POGENIC AEROSOLS BY COMBINING GROUND–BASED AEROSOL
06/08/1995 – 12/07/1996 FY97: $0 Total: $50,000
Prin. Invest.: R J CHARLSON, T L ANDERSON
Tech. Officer: LARC/D M WINKER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1803 UNIVERSITY OF WASHINGTON **9767**
WAVE DYNAMICS AND TRANSPORT IN THE STRATOSPHERE
02/08/1996 – 12/31/1997 FY97: $129,000 Total: $231,462
Prin. Invest.: J R HOLTON
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1877 UNIVERSITY OF WASHINGTON **9768**
COUPLING SATELLITE AND GROUND–BASED INSTRUMENT TO MAP CLIMATE FORCING BY ANTHRPOGENIC AEROSOLS
11/13/1996 – 12/15/1997 FY97: $85,076 Total: $85,076
Prin. Invest.: R J CHARLSON
Tech. Officer: LARC/D M WINKER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1894 UNIVERSITY OF WASHINGTON **9769**
A DEMONSTRATION OF AN AIR TRAFFIC CONTROL SAFETY EVALUATION
02/12/1997 – 10/13/1998 FY97: $250,000 Total: $250,000
Prin. Invest.: N G LEVENSON
Tech. Officer: LARC/F S SHIPMAN, LARC/K A SMITH
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 723 UNIVERSITY OF WASHINGTON **9770**
STRUCTURAL MODELING OF LIFTING SURFACE CONFIGURAT IONS FOR AIRPLANE MULTI–DISCIPLINARY"
07/30/1991 – 09/30/1997 FY97: $0 Total: $291,192
Prin. Invest.: E LIVNE
Tech. Officer: ARC/M D MOORE, ARC/H D MIURA
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 2 1157 UNIVERSITY OF WASHINGTON **9771**
PRESSURE SENSITIVE PAINT: IMPROVED QUALITY CONTRO L & REFERNCING
08/27/1997 – 11/30/1997 FY97: $127,000 Total: $127,000
Prin. Invest.: M P GOUTERMAN
Tech. Officer: ARC/J H BELL, ARC/E T SCHAIRER
CASE Category: 12 – CHEMISTRY

NAG 3 376 UNIVERSITY OF WASHINGTON **9772**
AN INVESTIGATION OF 3-D BOUNDARY LAYER FLOWS IN SUBSONIC DIFFUSERS
12/07/1982 – 10/03/1995 FY97: $0 Total: $912,743
Prin. Invest.: F B GESSNER, F B GESSNER
Tech. Officer: LERC/W R HINGST, LERC/A R PORRO
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1595 UNIVERSITY OF WASHINGTON **9773**
PRESSURE WAVE MACHINE DEVELOPMENT
06/07/1994 – 09/30/1997 FY97: $80,913 Total: $226,067
Prin. Invest.: J J KELLER
Tech. Officer: LERC/G SKOCH
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1837 UNIVERSITY OF WASHINGTON **9774**
PHORETIC AND RADIMEDTRIC FORCE MEASUREMENT ON MICR OPARTICLS UN MICROGRAVITY CONDITIONS
04/22/1996 – 04/30/2000 FY97: $54,000 Total: $134,000
Prin. Invest.: E J DAVIS
Tech. Officer: LERC/J S LING, LERC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 3 1865 UNIVERSITY OF WASHINGTON **9775**
INDIUM MONO-ION OSCILLATOR II
07/23/1996 – 07/22/2000 FY97: $58,000 Total: $158,000
Prin. Invest.: W NAGOURNEY, M DEHMELT
Tech. Officer: LERC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 5 677 UNIVERSITY OF WASHINGTON **9776**
MICROBURST ELECTRON PRECIPITATION
03/29/1991 – 02/28/1998 FY97: $125,400 Total: $886,486
Prin. Invest.: G K PARKS
Tech. Officer: GSFC/B J FLOWERS
CASE Category: 13 – PHYSICS

NAG 5 1518 UNIVERSITY OF WASHINGTON **9777**
THE DYNAMICAL EVOLUTION OF GLOBULAR CLUSTERS & A S EARCH FOR CATACLYSMIC VARIABLES IN GLOBULAR CLUST
04/02/1991 – 03/31/1997 FY97: $0 Total: $65,168
Prin. Invest.: B H MARGON
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 1599 UNIVERSITY OF WASHINGTON **9778**
STUDIES OF TROPICAL RAIN SYSTEMS FOR TRMM VALIDATION
05/13/1991 – 05/31/1997 FY97: $25,000 Total: $987,030
Prin. Invest.: R A HOUZE
Tech. Officer: GSFC/O THIELE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 1927 UNIVERSITY OF WASHINGTON **9779**
S193: LOOKING DOWN THE ACCRETION AXIS
03/04/1992 – 09/14/1997 FY97: $4,473 Total: $88,998
Prin. Invest.: P SZKODY
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2114 UNIVERSITY OF WASHINGTON **9780**
DISK PRECESSION IN THE MAGNETIC OLD NOVA V603 AQI
10/08/1992 – 01/31/1998 FY97: $0 Total: $24,500
Prin. Invest.: P A SZKODY
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2213 UNIVERSITY OF WASHINGTON **9781**
LARGE SCALE STRUCTURE AND GALAXY FORMATION
02/18/1993 – 03/31/1998 FY97: $0 Total: $1,486,000
Prin. Invest.: G LAKE, L ADAMS, J BARDEEN
Tech. Officer: GSFC/J R FISCHER
CASE Category: 11 – ASTRONOMY

NAG 5 2294 UNIVERSITY OF WASHINGTON **9782**
FROM MICROSCALE TO MESOSCALE: SNOWMELT, SOIL MOIS TURE AND EVAPOTRANSPIRATION USING DISTRIBUTED. .
06/22/1993 – 06/30/1998 FY97: $65,699 Total: $211,699
Prin. Invest.: D P LETTENMAIER
Tech. Officer: GSFC/F G HALL, GSFC/P SELLERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2303 UNIVERSITY OF WASHINGTON **9783**
EUVE SPECTROSCOPY OF EXPOSED WDS IN 3 CATACLYSMIC VARIABLES: PROBING ACCRETION PHYSICS
06/30/1993 – 09/14/1996 FY97: $0 Total: $20,000
Prin. Invest.: P A SZKODY
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 2315 UNIVERSITY OF WASHINGTON **9784**
COORDINATED VOYAGER OBSERVATIONS OF V603 AQI
07/12/1993 – 07/14/1997 FY97: $0 Total: $5,000
Prin. Invest.: P SZKODY
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 2767 UNIVERSITY OF WASHINGTON **9785**
THE ACCRETION AND SPECTRUM OF U GEM IN QUIESCENCE
10/26/1994 – 11/14/1997 FY97: $19,296 Total: $28,296
Prin. Invest.: P SZKODY
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2793 UNIVERSITY OF WASHINGTON **9786**
ASTROPHYSICS OF COSMIC EVOLUTION
11/21/1994 – 08/31/1997 FY97: $0 Total: $297,500
Prin. Invest.: C J HOGAN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2802 UNIVERSITY OF WASHINGTON **9787**
DIAGNOSTIC MODELING STUDIES OF OZONE AND WATER VAP OR USING UARS DATA
11/18/1994 – 11/30/1997 FY97: $76,881 Total: $230,643
Prin. Invest.: K TUNG
Tech. Officer: GSFC/C H JACKMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2813 UNIVERSITY OF WASHINGTON **9788**
WIND 3–D PLASMA DATA ANALYSIS
12/12/1994 – 12/14/1997 FY97: $172,000 Total: $467,900
Prin. Invest.: G K PARKS
Tech. Officer: GSFC/K W OGILVIE
CASE Category: 13 – PHYSICS

NAG 5 2821 UNIVERSITY OF WASHINGTON **9789**
INVESTIGATION OF FOREST STAND STRUCTURAL AND COMPOSITIONAL ATTRIBUTES IN LATE–SUCCESSIONAL, ETC
12/14/1994 – 03/31/1996 FY97: $0 Total: $95,000
Prin. Invest.: J B ADAMS
Tech. Officer: GSFC/C J TUCKER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2878 UNIVERSITY OF WASHINGTON **9790**
DISSEMINATION OF STMOSPHERIC SCIENCES AND SPACE SC IENCES DATA AND INFORMATION K–12 AND THE PUBLIC..
01/19/1995 – 01/31/1998 FY97: $284,689 Total: $879,472
Prin. Invest.: N UNTERSTEINER
Tech. Officer: GSFC/F HASLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3023 UNIVERSITY OF WASHINGTON **9791**
THE EVOLUTION OF GALAXIES AND CLUSTERS OF GALAXIES
10/02/1995 – 10/14/1997 FY97: $0 Total: $180,000
Prin. Invest.: G R LAKE
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3034 UNIVERSITY OF WASHINGTON **9792**
RESOLVED AND COMPOSITE PROPERTIES OF THE GIANT HII REGIONS IN M33
07/25/1995 – 08/14/1997 FY97: $0 Total: $24,000
Prin. Invest.: P W HODGE
Tech. Officer: GSFC/S HEAP
CASE Category: 11 – ASTRONOMY

NAG 5 3078 UNIVERSITY OF WASHINGTON **9793**
MEASURING SURFACE TOPOGRAPHY OF ICE SHEETS: A COMPREHENSIVE STUDY
09/25/1995 – 09/30/1997 FY97: $20,000 Total: $38,000
Prin. Invest.: D P WINEBRENNER
Tech. Officer: GSFC/R A BINDSCHADLER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 5 3121 UNIVERSITY OF WASHINGTON **9794**
A STUDY OF MAGNETIC ACCRETION IN VV PUP AND BL HYI
10/18/1995 – 10/31/1997 FY97: $15,000 Total: $20,346
Prin. Invest.: P SZKODY
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 3170 UNIVERSITY OF WASHINGTON **9795**
POLAR ULTRAVIOLET IMAGING DATA ANALYSIS
02/22/1996 – 02/28/1998 FY97: $668,219 Total: $1,434,275
Prin. Invest.: G K PARKS
Tech. Officer: GSFC/R A HOFFMAN
CASE Category: 69 – PSYCHOLOGY, OTHER

NAG 5 3188 UNIVERSITY OF WASHINGTON **9796**
WAVE DYNAMICS AND TRANSPORT IN THE MIDDLE ATMOSPHE RE (UARS).
03/29/1996 – 03/31/1998 FY97: $156,000 Total: $390,000
Prin. Invest.: J R HOLTON, C G LEOVY
Tech. Officer: GSFC/A R DOUGLASS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3219 UNIVERSITY OF WASHINGTON **9797**
SULFATE CLOUD AND RADIATION (SCAR) DATA
04/26/1996 – 08/31/1997 FY97: $10,000 Total: $27,056
Prin. Invest.: S GASSO, D HEGG
Tech. Officer: GSFC/Y KAUFMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3292 UNIVERSITY OF WASHINGTON **9798**
ACCRETION MONITORING DURING THE SUPERCYLE OF V1159 ORI
07/17/1996 – 01/14/1998 FY97: $14,625 Total: $24,748
Prin. Invest.: P SZKODY
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3293 UNIVERSITY OF WASHINGTON **9799**
SIMULTANEOUS X–RAY AND UV OBSERVATIONS OF THE SHOR TEST KNOWN PERIOD BINARY STAR
07/17/1996 – 01/14/1998 FY97: $0 Total: $34,041
Prin. Invest.: B MARGON
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 3345 UNIVERSITY OF WASHINGTON **9800**
SPACE SPECTROSCOPY OF THE WHITE DWARFS IN CATACLYS MIC VARIABLES: PROBES OF ACCRETION PROCESSES.....
08/13/1996 – 08/14/1997 FY97: $0 Total: $99,837
Prin. Invest.: P SZKODY
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3357 UNIVERSITY OF WASHINGTON **9801**
A HIGH–RESOLUTION SURVE OF THE DISK OF M31
08/13/1996 – 02/14/1998 FY97: $0 Total: $8,246
Prin. Invest.: P HODGE
Tech. Officer: GSFC/R PETRE
CASE Category: 12 – CHEMISTRY

NAG 5 3462 UNIVERSITY OF WASHINGTON **9802**
RETOVATIVE RESEARCH PROGRAM – STABILITY OF THE SOL
11/02/1996 – 08/31/1997 FY97: $140,000 Total: $140,000
Prin. Invest.: T R QUINN
Tech. Officer: GSFC/D HOLLAND
CASE Category: 13 – PHYSICS

NAG 5 3624 UNIVERSITY OF WASHINGTON **9803**
MODELING OF POLYNYA PROPERTIES IN THE POLAR SEAS
02/12/1997 – 12/31/1997 FY97: $28,600 Total: $28,600
Prin. Invest.: S MARTIN
Tech. Officer: GSFC/R H THOMAS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3729 UNIVERSITY OF WASHINGTON **9804**
INVESTIGATION OF FOREST STAND STRUCTURAL & COMPOSI PACIFIC NORTHWEST FORESTS
02/12/1997 – 12/31/1997 FY97: $100,000 Total: $100,000
Prin. Invest.: D R GILLESPIE
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3779 UNIVERSITY OF WASHINGTON **9805**
MAPPING ANTARCTIC OZONE IN THE 1970S FROM VISIBLE–
02/12/1997 – 12/31/1997 FY97: $66,836 Total: $66,836
Prin. Invest.: S G WARREN
Tech. Officer: GSFC/J A KAYE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3825 UNIVERSITY OF WASHINGTON **9806**
PROPOSAL TO STUDY BACKGROUNDS AND TRIGGERING CONDI GAMMA RAY TELESCOPES IN LOW EARTH ORBIT
01/29/1997 – 01/31/1998 FY97: $14,000 Total: $14,000
Prin. Invest.: T H BURNETT
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3958 UNIVERSITY OF WASHINGTON **9807**
TRACE GAS DYNAMICS IN THE JAU RIVER BASIN, NORTH C
02/13/1997 – 02/14/1998 FY97: $38,319 Total: $38,319
Prin. Invest.: D E RICHEY
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3995 UNIVERSITY OF WASHINGTON **9808**
SAR–BASED STRUCTURAL MAPPING OF THE TRANSANTARCTIC
04/30/1997 – 02/28/1998 FY97: $43,337 Total: $43,337
Prin. Invest.: D LEVY
Tech. Officer: GSFC/R H THOMAS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4074 UNIVERSITY OF WASHINGTON **9809**
PERCEIVED SELF–MOTION ASSESSED BY COMPUTER–MADE AN
03/17/1997 – 02/14/1998 FY97: $70,512 Total: $70,512
Prin. Invest.: D E PARKER
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 4105 UNIVERSITY OF WASHINGTON **9810**
TORQUE FLUCTUATIONS IN SMC X–1
04/18/1997 – 03/31/1998 FY97: $40,000 Total: $40,000
Prin. Invest.: P E BOYNTON
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4175 UNIVERSITY OF WASHINGTON **9811**
ESTIMATING ALBEDO & SUMMER ICE MELT WITH RGPS PROD
03/19/1997 – 01/31/1998 FY97: $77,161 Total: $77,161
Prin. Invest.: R W LINDSAY
Tech. Officer: GSFC/R H THOMAS
CASE Category: 33 – OCEANOGRAPHY

NAG 5 4176 UNIVERSITY OF WASHINGTON **9812**
USE OF RADARSAT DATA TO ESTIMATE SEA–ICE MELTING I ESTIMATE FRESH WATER FLUX TO THE ARCTIC OCEAN
03/24/1997 – 12/31/1997 FY97: $61,500 Total: $61,500
Prin. Invest.: S MARTIN
Tech. Officer: GSFC/R H THOMAS
CASE Category: 33 – OCEANOGRAPHY

NAG 5 4242 UNIVERSITY OF WASHINGTON **9813**
A THEORETICAL STUDY OF PROCESSES DRIVING THE FORMA
04/17/1997 – 04/14/1998 FY97: $65,423 Total: $65,423
Prin. Invest.: T QUIN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4375 UNIVERSITY OF WASHINGTON **9814**
POLAR EXCHANGE AT THE SEA SURFACE
06/11/1997 – 05/31/1998 FY97: $1,044,536 Total: $1,044,536
Prin. Invest.: D A ROTHROCK
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4473 UNIVERSITY OF WASHINGTON **9815**
INTERPLANETARY DUST
06/02/1997 – 03/14/1998 FY97: $185,000 Total: $185,000
Prin. Invest.: D E BROWNLEE
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4540 UNIVERSITY OF WASHINGTON **9816**
THERMAL HISTORY OF LUNAR CRUSTAL ROCKS
05/06/1997 – 12/14/1997 FY97: $31,000 Total: $31,000
Prin. Invest.: D S MCCALLUM
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4630 UNIVERSITY OF WASHINGTON **9817**
AEROSOL CONCENTRATIONS AND LARGE SCALE CLOUD DISTR BOUNDARY LAYER
05/21/1997 – 05/31/1998 FY97: $58,297 Total: $58,297
Prin. Invest.: M B BAKER
Tech. Officer: GSFC/M CHOU
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4681 UNIVERSITY OF WASHINGTON **9818**
ENERGY DISTRIBUTION WITHIN THE TERRESTRIAL MAGNETO WITH NUMERICAL MODELS
06/17/1997 – 05/31/1998 FY97: $53,477 Total: $53,477
Prin. Invest.: D MCCARTHY
Tech. Officer: GSFC/J GREBOWSKY
CASE Category: 13 – PHYSICS

NAG 5 4686 UNIVERSITY OF WASHINGTON **9819**
REMOTE SENSING OF MAGNETOSPHERIC STRUCTURE USING (STP PARTICLE AND FIELD DATA
06/05/1997 – 05/31/1998 FY97: $32,588 Total: $32,588
Prin. Invest.: D C WHIPPLE
Tech. Officer: GSFC/J GREBOWSKY
CASE Category: 13 – PHYSICS

NAG 5 4712 UNIVERSITY OF WASHINGTON **9820**
TITLE: THE REGIONAL AMAZON MODEL SYNOPTIC SCALE H BIO-GEOCHEMICAL CYCLES FROM EOS (EOSRAM)
06/23/1997 – 06/30/1998 FY97: $388,877 Total: $388,877
Prin. Invest.: J RICHEY
Tech. Officer: GSFC/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4728 UNIVERSITY OF WASHINGTON **9821**
SATELLITE OBSERVATIONS OF ICE SHEET CLIMATE VARIAT SCALES
06/19/1997 – 06/14/1998 FY97: $143,429 Total: $143,429
Prin. Invest.: D D WINBRENNER
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4739 UNIVERSITY OF WASHINGTON **9822**
RADIATIVE TRANSFER IN SNOW TERRAIN FOR APPLICATION REMOTE SENSING
06/17/1997 – 06/14/1998 FY97: $35,000 Total: $35,000
Prin. Invest.: L TSANG
Tech. Officer: GSFC/A T CHANG
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4791 UNIVERSITY OF WASHINGTON **9823**
MONITORING THE ACCRETION OF TWO OLD NOVAE
06/17/1997 – 06/30/1998 FY97: $5,000 Total: $5,000
Prin. Invest.: P SZKODY
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4795 UNIVERSITY OF WASHINGTON **9824**
TRMM VALIDATION: INTEGRATION OF TRMM SATELLITE AN DATA TO DETERMINE TROPICAL HEATING
09/08/1997 – 09/14/1998 FY97: $200,000 Total: $200,000
Prin. Invest.: R A HOUZE,JR.
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4961 UNIVERSITY OF WASHINGTON **9825**
INSTRUMENTATION OF NEW AIRCRAFT FOR ATMOSPHERIC RE
07/03/1997 – 06/14/1998 FY97: $680,982 Total: $680,982
Prin. Invest.: P V HOBBS
Tech. Officer: GSFC/D STARR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 5011 UNIVERSITY OF WASHINGTON **9826**
ELECTRIC FIELD & OPTICAL STUDIES OF LIGHTNING GENERATED PULSES
05/12/1993 – 09/30/1997 FY97: $0 Total: $342,463
Prin. Invest.: R H HOLZWORTH
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 5026 UNIVERSITY OF WASHINGTON **9827**
A FRACTURE TOUGHNESS STUDY OF SCRIM AND FIBER REINFORCED FILMS
12/21/1994 – 02/28/1997 FY97: $0 Total: $133,883
Prin. Invest.: D L HARTMANN
Tech. Officer: GSFC/R A SCHIFFER
CASE Category: 33 – OCEANOGRAPHY

NAG 5 6067 UNIVERSITY OF WASHINGTON **9828**
IMPACT OF FOREST CLEARCUTTING IN THE PACIFIC NORTH OD EVENTS
07/28/1997 – 07/31/1998 FY97: $85,000 Total: $85,000
Prin. Invest.: A GILLESPIE
Tech. Officer: GSFC/H FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 6101 UNIVERSITY OF WASHINGTON **9829**
CLIMATE PROCESSES OVER THE OCEAN
07/24/1997 – 12/31/1997 FY97: $564,000 Total: $564,000
Prin. Invest.: D HARTMANN
Tech. Officer: GSFC/R SCHIFFER
CASE Category: 33 – OCEANOGRAPHY

NAG 5 6244 UNIVERSITY OF WASHINGTON **9830**
MAGNETOSHEATH/IONOSPHERIC COUPLING IN THE CUSP/CLE
08/21/1997 – 05/31/1998 FY97: $78,000 Total: $78,000
Prin. Invest.: D M WINGLEE
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 6297 UNIVERSITY OF WASHINGTON **9831**
UNIVERSITY OF WASHINGTON – RESEARCH EARTH SYSTEM S
09/15/1997 – 08/31/1998 FY97: $75,000 Total: $75,000
Prin. Invest.: J M DECOSMO
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6328 UNIVERSITY OF WASHINGTON **9832**
PLASMODESMATA AND THE CONTROL OF GRAVITROPISM
09/11/1997 – 09/30/1998 FY97: $65,000 Total: $65,000
Prin. Invest.: D CLELAND
Tech. Officer: GSFC/T SCOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 6365 UNIVERSITY OF WASHINGTON **9833**
ASSESSMENT OF REQUIRED ACCURACY OF DIGITAL ELEVATI MODELING
09/17/1997 – 06/30/1998 FY97: $134,506 Total: $134,506
Prin. Invest.: D LETTENMAIER
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 7 2 UNIVERSITY OF WASHINGTON **9834**
STARDUST PROGRAM
03/28/1996 – 12/31/1996 FY97: –$19,107 Total: $58,407
Prin. Invest.: D E BROWNLEE
Tech. Officer: HQ/M SAUNDERS
CASE Category: 11 – ASTRONOMY

NAG 7 3 UNIVERSITY OF WASHINGTON **9835**
GRANT FOR P.I. OF THE STARDUST PROGRAM PHASE C/D
12/30/1996 – 03/31/1999 FY97: $98,500 Total: $98,500
Prin. Invest.: D E BROWNLEE
Tech. Officer: HQ/M DAHL
CASE Category: 11 – ASTRONOMY

NAG 8 1149 UNIVERSITY OF WASHINGTON **9836**
PROTEIN CRYSTALLIZATION
09/01/1995 – 08/31/1998 FY97: $181,596 Total: $457,929
Prin. Invest.: V VOGEL, P STAYTOM
Tech. Officer: MSFC/M L PUSEY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1150 UNIVERSITY OF WASHINGTON **9837**
RESEARCH " ELECTRICFICATION IN TROPICAL SYSTEMS"
09/13/1995 – 09/12/1998 FY97: $47,291 Total: $117,291
Prin. Invest.: M BAKER
Tech. Officer: MSFC/H J CHRISTIAN, MSFC/R J BLAKESLEE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 1277 UNIVERSITY OF WASHINGTON **9838**
THIN FILM MEDIATED PHASE CHANGE PHEMOMENA
04/26/1996 – 04/30/1998 FY97: $30,000 Total: $90,000
Prin. Invest.: J S WETTLAUFER
Tech. Officer: MSFC/D R WOODARD, MSFC/R KROES
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 9 683 UNIVERSITY OF WASHINGTON **9839**
LDEF MICROCRATER ANALYSIS
04/26/1993 – 11/04/1997 FY97: $0 Total: $30,000
Prin. Invest.: D E BROWNLEE
Tech. Officer: JSC/M ZOLENSKY
CASE Category: 11 – ASTRONOMY

NAG 9 784 UNIVERSITY OF WASHINGTON **9840**
CREW TRAINING FORCE DISPLAY VIRTUAL ENVIRONMENTS
06/20/1995 – 03/31/1996 FY97: -$1,762 Total: $41,912
Prin. Invest.: B HANNAFORD
Tech. Officer: JSC/D HOMAN
CASE Category: 46 – MECHANICAL ENGR

NAGW 844 UNIVERSITY OF WASHINGTON **9841**
ISOTOPIC BIOGEOCHEMICAL STUDY OF WETLAND METHANE
10/01/1985 – 06/30/1998 FY97: $0 Total: $1,877,951
Prin. Invest.: P D QUAY, S L KING, G FARWELL
Tech. Officer: HQ/M J KURYLO, HQ/R T WATSON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 1256 UNIVERSITY OF WASHINGTON **9842**
SEA ICE TYPE DISCRIMINATION USING POLARIMETRIC SYNTHETIC
12/22/1987 – 09/30/1997 FY97: $0 Total: $820,956
Prin. Invest.: D P WINEBRENNER
Tech. Officer: HQ/R H THOMAS, HQ/W S WILSON
CASE Category: 33 – OCEANOGRAPHY

NAGW 1436 UNIVERSITY OF WASHINGTON **9843**
SATELLITE STUDIES OF ICE EDGE AND POLYNYA PROCESSES
08/12/1988 – 12/31/1996 FY97: $0 Total: $740,118
Prin. Invest.: S MARTIN
Tech. Officer: HQ/R H THOMAS, HQ/W S WILSON
CASE Category: 33 – OCEANOGRAPHY

NAGW 2407 UNIVERSITY OF WASHINGTON **9844**
POLAR EXCHANGE AT THE SEA SURFACE (POLES); THE INT ERACTION OF OCEANS, ICE, AND ATMOSPHERE
04/11/1991 – 09/30/1997 FY97: $0 Total: $5,068,565
Prin. Invest.: D A ROTHROCK, S MARTIN, R BROWN
Tech. Officer: HQ/R H THOMAS, HQ/W S WILSON
CASE Category: 33 – OCEANOGRAPHY

NAGW 2574 UNIVERSITY OF WASHINGTON **9845**
A COUPLED THERMODYNAMIC/STRONG FLUCTUATION THEORY MODEL OF MICROWAVE EMISSION FROM ICE INPOLAR OCNS
08/16/1991 – 09/30/1997 FY97: $0 Total: $390,388
Prin. Invest.: T C GRENFELL, G A MAYKUT
Tech. Officer: HQ/R H THOMAS, HQ/R A SCHIFFER
CASE Category: 33 – OCEANOGRAPHY

NAGW 2633 UNIVERSITY OF WASHINGTON **9846**
CLIMATE PROCESSES OVER THE OCEAN
07/15/1991 – 09/30/1997 FY97: $0 Total: $3,016,000
Prin. Invest.: D L HARTMANN
Tech. Officer: HQ/J C DODGE, HQ/W S WILSON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 2652 UNIVERSITY OF WASHINGTON **9847**
NAGW-2652/UNIV WASHINGTON/THE REGIONAL AMAZON MODE L: SYN-OPTIC SCALE HYDROLOGICAL & BIOGEOCHEMICAL C
07/25/1991 – 09/30/1997 FY97: $0 Total: $3,798,462
Prin. Invest.: J E RICHEY
Tech. Officer: HQ/R E MURPHY, HQ/W S WILSON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 2676 UNIVERSITY OF WASHINGTON **9848**
LOW MASS STARS AS DARK MATTER
08/06/1991 – 04/30/1997 FY97: $0 Total: $198,000
Prin. Invest.: G LAKE
Tech. Officer: HQ/G S KUTTER, HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 2743 UNIVERSITY OF WASHINGTON **9849**
MAPPING ANTARCTIC OZONE IN THE 1970'S
09/19/1991 – 12/31/1998 FY97: $0 Total: $350,785
Prin. Invest.: S G WARREN
Tech. Officer: HQ/J A KAYE, HQ/R E MURPHY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3158 UNIVERSITY OF WASHINGTON **9850**
SPACE SPECTROSCOPY OF THE WHITE DWARFS IN CATACLYS MIC VARI-ABLES
08/14/1992 – 07/31/1997 FY97: $0 Total: $389,327
Prin. Invest.: P SZKODY
Tech. Officer: HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 3287 UNIVERSITY OF WASHINGTON **9851**
NAGW-3287/UNIV WASHINGTON @ SEATTLE/INTERPLANETARY DUST
11/27/1992 – 09/30/1997 FY97: $0 Total: $829,149
Prin. Invest.: D B BROWNLEE
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3352 UNIVERSITY OF WASHINGTON **9852**
NAGW-3352/UNIV WASHINGTON/THE FORMATION OF CUMULATE ROCKS
01/26/1993 – 12/15/1997 FY97: $0 Total: $119,259
Prin. Invest.: I S MCCALLUS
Tech. Officer: HQ/H C BRINTON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3475 UNIVERSITY OF WASHINGTON **9853**
CLOUDS, LARGE SCALE INTERACTIONS AND CLIMATE
03/25/1993 – 09/30/1996 FY97: $0 Total: $459,667
Prin. Invest.: D L HARTMAN
Tech. Officer: HQ/J C DODGE, HQ/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3606 UNIVERSITY OF WASHINGTON **9854**
PATTERNS OF CZCS OBSERVED PLANT PIGMENT IN REGIONS OF PRESENT OR FUTURE JGOFS WORK
05/28/1993 – 09/30/1997 FY97: $0 Total: $386,077
Prin. Invest.: K BANSE
Tech. Officer: HQ/R E MURPHY
CASE Category: 33 – OCEANOGRAPHY

NAGW 3636 UNIVERSITY OF WASHINGTON **9855**
COMPARISON OF INTERPLANETARY AND INTERSTELLAR GRAI NS
06/17/1993 – 11/30/1997 FY97: $6,000 Total: $64,172
Prin. Invest.: D BROWNLEE
Tech. Officer: HQ/J A NUTH III
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 3647 UNIVERSITY OF WASHINGTON **9856**
A WETNET STUDY OF WINDS, STORMS AND AIR–SEA FLUX M ODELING
06/29/1993 – 03/31/1996 FY97: –$205 Total: $368,621
Prin. Invest.: R A BROWN
Tech. Officer: HQ/J C DODGE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3650 UNIVERSITY OF WASHINGTON **9857**
EQUATOR–S PLASMA RESEARCH
07/09/1993 – 09/30/1997 FY97: $0 Total: $600,000
Prin. Invest.: G K PARKS
Tech. Officer: HQ/E C WHIPPLE, HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 3750 UNIVERSITY OF WASHINGTON **9858**
AEROSOLS FROM BIOMASS BURNING IN THE TROPICAL SAVA NNAH
09/23/1993 – 09/30/1997 FY97: $0 Total: $427,500
Prin. Invest.: P V HOBBS
Tech. Officer: HQ/J T SUTTLES, HQ/A C JANETOS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3754 UNIVERSITY OF WASHINGTON **9859**
EVOLUTION OF AEROSOL SIZE DISTRIBUTION IN THE CLOU DY BOUNDARY LAYER
09/09/1993 – 06/30/1997 FY97: $0 Total: $241,375
Prin. Invest.: M B BAKER, D A HEGG
Tech. Officer: HQ/J T SUTTLES, HQ/A C JANETOS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3755 UNIVERSITY OF WASHINGTON **9860**
PLASMADESMATA AND THE CONTROL OF GRAVITROPISM
09/28/1993 – 09/30/1997 FY97: $0 Total: $125,000
Prin. Invest.: R E CLELAND
Tech. Officer: HQ/T W HALSTEAD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 3821 UNIVERSITY OF WASHINGTON **9861**
NAGW–3821/UNIV WASHINGTON/AEROSAL INFLUENCES ON RA DIATION BALANCE
11/24/1993 – 09/30/1996 FY97: $0 Total: $83,602
Prin. Invest.: R CHARLSON
Tech. Officer: HQ/A C JANETOS, HQ/R T JANETOS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3960 UNIVERSITY OF WASHINGTON **9862**
IMPROVING ALTIMETRY USING IONOSPHERIC AND ATMOSPHE RIC TOMOGRAPHY
05/14/1994 – 11/30/1997 FY97: $91,000 Total: $269,572
Prin. Invest.: B HOWE
Tech. Officer: HQ/J S THEON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4169 UNIVERSITY OF WASHINGTON **9863**
RADNET: A NEURAL NETWORK–BASED ESTIMATION OF THE S URFACE RADIATION BUDGET IN THE ARCTIC FROM TOVS
10/21/1994 – 09/30/1997 FY97: $0 Total: $107,197
Prin. Invest.: A SCHWEIGER
Tech. Officer: HQ/R H THOMAS, HQ/J S THEON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4251 UNIVERSITY OF WASHINGTON **9864**
ESTIMATION OF SNOW PARAMETERS BASED ON PASSIVE REM OTE SENSING AND METEOROLOGICAL INFORMATION
02/06/1995 – 02/14/1996 FY97: $0 Total: $80,000
Prin. Invest.: L TSANG
Tech. Officer: HQ/M Y WEI, HQ/J S THEON
CASE Category: 45 – ELECTRICAL ENGR

NAGW 4335 UNIVERSITY OF WASHINGTON **9865**
ISEE ARCHIVING DATA
03/15/1995 – 02/29/1996 FY97: $0 Total: $30,611
Prin. Invest.: G K PARKS
Tech. Officer: HQ/J WILLETT
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 4382 UNIVERSITY OF WASHINGTON **9866**
THE ACCUMULATION AND MELT OF SNOW IN THE ARCTIC BA SIN
04/24/1995 – 01/31/1997 FY97: $0 Total: $129,760
Prin. Invest.: R COLONY
Tech. Officer: HQ/R H THOMAS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4393 UNIVERSITY OF WASHINGTON **9867**
PERCEIVED SELF–MOTION ASSESSED BY COMPUTER–MADE AN IMATIONS
04/14/1995 – 06/30/1997 FY97: $0 Total: $156,480
Prin. Invest.: D E PARKER
Tech. Officer: HQ/F SULZMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAGW 4444 UNIVERSITY OF WASHINGTON **9868**
AMAZON ECOLOGY A WORKSHOP
05/04/1995 – 06/30/1997 FY97: $0 Total: $209,990
Prin. Invest.: J E RICHEY
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4450 UNIVERSITY OF WASHINGTON **9869**
AN INVESTIGATION OF THE SOURCE OF MICROBURST ELECTRON PRECIPITATION BY COMPARISON OF DATATO
05/02/1995 – 04/30/1997 FY97: $0 Total: $120,382
Prin. Invest.: G K PARKS
Tech. Officer: HQ/J D BOHLIN
CASE Category: 13 – PHYSICS

NAGW 4565 UNIVERSITY OF WASHINGTON **9870**
DEVELOPMENT AND TESTING OF OPERATIONAL ATMOSPHERIC CORRECTION OF SATELLITE DATA FOR THE NSF–LTER SI
05/31/1995 – 09/30/1997 FY97: $12,866 Total: $46,260
Prin. Invest.: J CASTLE, E VERMOTE, J C ROGER
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4642 UNIVERSITY OF WASHINGTON **9871**
KINEMATICS AND MECHANICS OF SEA ICE
07/18/1995 – 05/14/1998 FY97: $0 Total: $247,516
Prin. Invest.: R E MORITZ
Tech. Officer: HQ/R H THOMAS, HQ/M BALTUCK
CASE Category: 33 – OCEANOGRAPHY

NAGW 4712 UNIVERSITY OF WASHINGTON **9872**
ASSESSMENT OF REQUIRED ACCURACY OF DIGITAL ELEVATI ON DATA FOR HYDROLOGIC MODELING
08/22/1995 – 06/30/1997 FY97: $93,000 Total: $187,000
Prin. Invest.: D P LETTENMAIER
Tech. Officer: HQ/M Y WEI, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4776 UNIVERSITY OF WASHINGTON **9873**
THE STABILITY OF THE SOLAR SYSTEM
09/21/1995 – 08/31/1997 FY97: $0 Total: $70,000
Prin. Invest.: T R QUINN
Tech. Officer: HQ/D A HOLLAND, HQ/J H BREDEKAMP
CASE Category: 13 – PHYSICS

NAGW 4931 UNIVERSITY OF WASHINGTON **9874**
THE USE OF RADARSAT DATA TO STUDY ARCTIC SUMMER IC E PROCESSES
02/12/1996 – 12/31/1996 FY97: $0 Total: $65,000
Prin. Invest.: S MARTIN
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 33 – OCEANOGRAPHY

NAGW 4950 UNIVERSITY OF WASHINGTON **9875**
ESTIMATING ALBEDO AND SUMMER ICE MELT
02/20/1996 – 01/31/1997 FY97: $0 Total: $51,815
Prin. Invest.: D W LINDSAY
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 33 – OCEANOGRAPHY

NAGW 4972 UNIVERSITY OF WASHINGTON **9876**
ANALYSIS OF RADARSAT'S C–BAND SYNTHETIC APERTURE R ADAR (SAR) DATA FOR IDENTIFICATION OF PBL ROLL SI
02/24/1996 – 02/28/1998 FY97: $0 Total: $35,664
Prin. Invest.: G LEVY
Tech. Officer: HQ/R H THOMAS, HQ/R C HARRISS
CASE Category: 33 – OCEANOGRAPHY

NAGW 5035 UNIVERSITY OF WASHINGTON **9877**
TROPICAL PACIFIC HEAT TRANSPORTS FROM TOPEX/POSEID ON AND TOGA–TAO MEASUREMENTS
04/30/1996 – 01/31/1997 FY97: $0 Total: $70,000
Prin. Invest.: E S JOHNSON
Tech. Officer: HQ/B C DOUGLAS, HQ/R C HARRISS
CASE Category: 33 – OCEANOGRAPHY

NAGW 5047 UNIVERSITY OF WASHINGTON **9878**
MAGNETOSHEATH/IONOSPHERIC COUPLING IN THE CUSP/CLE FT REGION
04/30/1996 – 09/30/1997 FY97: $0 Total: $75,000
Prin. Invest.: R M WINGLEE
Tech. Officer: HQ/M M MELLOTT, HQ/G L WITHBROE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 5066 UNIVERSITY OF WASHINGTON **9879**
INVESTIGATION OF FOREST STAND STRUCTURAL & COMPOSI TIONAL ATTRIBUTES IN PACIFIC NORTHWESTFORESTS
06/10/1996 – 02/28/1997 FY97: $0 Total: $100,000
Prin. Invest.: J B ADAMS
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 5169 UNIVERSITY OF WASHINGTON **9880**
STRUCTURE OF PRECIPITATION SYSTEMS AFFECTING THE M ISSISSIPPI BASIN
09/11/1996 – 12/31/1997 FY97: $0 Total: $100,000
Prin. Invest.: R A HOUZE
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 5177 UNIVERSITY OF WASHINGTON **9881**
ICE THICKNESS DISTRIBUTION SAMPLING TEST
09/05/1996 – 05/31/1997 FY97: $0 Total: $44,897
Prin. Invest.: D A ROTHROCK
Tech. Officer: HQ/R H THOMAS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5225 UNIVERSITY OF WASHINGTON **9882**
GYRE SCALE CIRCULATION AND COUPLING IN THE NORTH A TLANTIC AND NORTH PACIFIC OCEANS
09/27/1996 – 09/30/1997 FY97: $109,307 Total: $109,307
Prin. Invest.: K A KELLY
Tech. Officer: HQ/B C DOUGLAS, HQ/R C HARRISS
CASE Category: 33 – OCEANOGRAPHY

NAS 1 18940 UNIVERSITY OF WASHINGTON **9883**
SAGE III SCIENCE INVESTIGATION SUPPORT, P.I. PETER V. HOBBS
10/27/1989 – 01/31/2005 FY97: $61,567 Total: $270,513
Prin. Invest.: P V HOBBS
Tech. Officer: LARC/G MADDREA
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAS 5 26301 UNIVERSITY OF WASHINGTON **9884**
WAVE DYNAMICS AND TRANSPORT IN THE MIDDLE ATMOS– PHERE___
09/29/1980 – 05/31/1996 FY97: $0 Total: $2,205,194
Prin. Invest.: J R HOLTON
Tech. Officer: GSFC/C REBER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 30613 UNIVERSITY OF WASHINGTON **9885**
INVESTIGATION DEFINITION PHASE FOR CLUSTER PLASMA SPECTROMETRY
02/21/1989 – 10/31/1997 FY97: $100,000 Total: $4,107,859
Prin. Invest.: G K PARKS
Tech. Officer: GSFC/K STICH
CASE Category: 13 – PHYSICS

NAS 5 31372 UNIVERSITY OF WASHINGTON **9886**
INTERMEDIATE THERMAL INFRARED RADIOMETER (EOS INVESTIGATION)
02/19/1992 – 03/31/1999 FY97: $350,000 Total: $1,915,000
Prin. Invest.: A R GILLESPIE
Tech. Officer: GSFC/H BLODGET
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCA 2 2002 UNIVERSITY OF WASHINGTON **9887**
JOINT SPONSORED RESEARCH AGREEMENT NO. 6 VIDEO LUM INESCENT BAROMETRY
02/25/1993 – 12/31/1995 FY97: $0 Total: $547,636
Prin. Invest.: M GOUTERMAN
Tech. Officer: ARC/B MCLACHLAN, ARC/S DAVIS
CASE Category: 12 – CHEMISTRY

NCC 2 982 UNIVERSITY OF WASHINGTON **9888**
MODELING & SAFETY ANALYSIS OF CRAS/FMS COORDINATOR
03/27/1997 – 09/30/1997 FY97: $70,000 Total: $70,000
Prin. Invest.: N G LEVESON
Tech. Officer: ARC/E A PALMER
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 5152 UNIVERSITY OF WASHINGTON **9889**
DEVELOPMENT OF AN AUTOMATIC GRID GENERATOR FOR MUL TIELEMENT HIGH-LIFT WINGS
08/11/1995 – 10/31/1996 FY97: $0 Total: $40,000
Prin. Invest.: S EBERHARDT, B KIM
Tech. Officer: ARC/W R VAN DALSEM, ARC/E TU
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 8 116 UNIVERSITY OF WASHINGTON **9890**
FRC STARTUP RELEVENT TO FUSION PROPULSION
07/30/1996 – 07/31/1998 FY97: $142,555 Total: $250,000
Prin. Invest.: D HOFFMAN
Tech. Officer: MSFC/B EMRICH, MSFC/M HOGUE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 30100 UNIVERSITY OF WASHINGTON **9891**
NGT-30100/UNIV WASHINGTON/GSRP/GLOBAL CHANGE
11/27/1992 – 04/30/1996 FY97: -$867 Total: $65,133
Prin. Invest.: S E YUTER
Tech. Officer: HQ/G ASRAR, HQ/J S THEON
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 30116 UNIVERSITY OF WASHINGTON **9892**
NGT-30116/UNIV WASHINGTON/GLOBAL CHANGE FELLOWSHIP PROGRAM
11/02/1992 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: L J CARLSON
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30123 UNIVERSITY OF WASHINGTON **9893**
NGT-30123/UNIV WASHINGTON/GLOBAL CHANGE FELLOWSHIP PROGRAM
11/02/1992 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: W T WELCH
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 30176 UNIVERSITY OF WASHINGTON **9894**
GLOBAL CHANGE FELLOWSHIP PROGRAM
09/01/1993 – 09/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: R E BREIDENTHAL
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 30178 UNIVERSITY OF WASHINGTON **9895**
GLOBAL CHANGE FELLOWSHIP PROGRAM
09/02/1993 – 07/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: E RISKIN
Tech. Officer: HQ/G ASRAR, HQ/D M BUTLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30246 UNIVERSITY OF WASHINGTON **9896**
GLOBAL CHANGE FELLOWSHIP AWARD
09/29/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: S C PORTER
Tech. Officer: HQ/M BALTUCK, HQ/G ASRAR
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 30282 UNIVERSITY OF WASHINGTON **9897**
GLOBAL CHANGE FELLOWSHIP AWARD
09/29/1994 – 12/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: N UNTERSTEINER
Tech. Officer: HQ/J S THEON, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30313 UNIVERSITY OF WASHINGTON **9898**
GLOBAL CHANGE FELLOWSHIP AWARD
07/27/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: J W MURRAY
Tech. Officer: HQ/M BALTUCK, HQ/G ASRAR
CASE Category: 33 – OCEANOGRAPHY

NGT 30324 UNIVERSITY OF WASHINGTON **9899**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/11/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: D L HARTMANN
Tech. Officer: HQ/R A SCHIFFER, HQ/G ASRAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 30335 UNIVERSITY OF WASHINGTON **9900**
GLOBAL CHANGE FELLOWSHIP PROGRAM
07/22/1995 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: P V HOBBS
Tech. Officer: HQ/RA SCHIFFER, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30338 UNIVERSITY OF WASHINGTON **9901**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/31/1995 – 08/31/1998 FY97: $0 Total: $22,000
Prin. Invest.: T DUNNE
Tech. Officer: HQ/A GHASSEM
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 30343 UNIVERSITY OF WASHINGTON **9902**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/04/1995 – 08/31/1998 FY97: $0 Total: $44,000
Prin. Invest.: D P LETTENMAIER
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30348 UNIVERSITY OF WASHINGTON **9903**
GLOBAL CHANGE FELLOWSHIP PROGRAM
09/05/1995 – 08/31/1998 FY97: $0 Total: $44,000
Prin. Invest.: R E MCDUFF
Tech. Officer: HQ/G ASRAR, HQ/M BALTUCK
CASE Category: 33 – OCEANOGRAPHY

NGT 40011 UNIVERSITY OF WASHINGTON **9904**
NATIONAL SPACE GRANT COLLEGE & FELLOWSHIP PROGRAM
09/29/1989 – 09/30/1997 FY97: $0 Total: $2,470,166
Prin. Invest.: G K PARKS
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51047 UNIVERSITY OF WASHINGTON **9905**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/23/1993 – 09/15/1996 FY97: $0 Total: $66,000
Prin. Invest.: M BAKER
Tech. Officer: MSFC/F SIX
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 51155 UNIVERSITY OF WASHINGTON **9906**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/06/1993 – 09/15/1996 FY97: $0 Total: $66,000
Prin. Invest.: R M WINGLEE
Tech. Officer: HQ/D HOLLAND
CASE Category: 13 – PHYSICS

NGT 51225 UNIVERSITY OF WASHINGTON **9907**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/26/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: M J PERRY
Tech. Officer: HQ/A NOVOTNY
CASE Category: 33 – OCEANOGRAPHY

NGT 51279 UNIVERSITY OF WASHINGTON **9908**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/14/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: S S CARLSON
Tech. Officer: HQ/G LESANE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 51309 UNIVERSITY OF WASHINGTON **9909**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/06/1994 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: S HANKS
Tech. Officer: ARC/M MOORE
CASE Category: 22 – COMPUTER SCIENCE

NGT 70325 UNIVERSITY OF WASHINGTON **9910**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
07/01/1993 – 06/30/1997 FY97: $0 Total: $88,000
Prin. Invest.: B MARGON
Tech. Officer: HQ/D K RUSSELL
CASE Category: 11 – ASTRONOMY

NGT 2 52219 UNIVERSITY OF WASHINGTON **9911**
INFRARED STUDY OF HERBIG AE/BE SYSTEMS
08/19/1996 – 08/31/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: D BROWNLEE
Tech. Officer: ARC/D H WOODEN, ARC/F C WITTEBORN
CASE Category: 11 – ASTRONOMY

NGT 5 6 UNIVERSITY OF WASHINGTON **9912**
STARLIGHT CORRELATED WITH DAMPED LYMAN–ALPHA ABSORBERS
06/26/1995 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: C J HOGAN
Tech. Officer: GSFC/G A SOFFEN, GSFC/B E WOODGATE
CASE Category: 11 – ASTRONOMY

NGT 5 32 UNIVERSITY OF WASHINGTON **9913**
SIMULATION AND ANALYSIS OF AIRCRAFT NOX EMISSIONS IN THE LOWER STRATOSPHERE AND UPPER TROPOSPHERE
07/24/1996 – 08/31/1997 FY97: $22,000 Total: $44,000
Prin. Invest.: J R HOLTON
Tech. Officer: GSFC/G A SOFFEN, GSFC/A DOUGLAS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 5 30004 UNIVERSITY OF WASHINGTON **9914**
QUANTITATIVE MESOSCALE GEOMORPHOLOGY OF THE AMAZON
10/11/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: T DUNNE
Tech. Officer: GSFC/G ASRAR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 5 30030 UNIVERSITY OF WASHINGTON **9915**
STRUCTURE, DYNAMICS, AND VARIABILITY OF THERMOCLIN WATER FORMATION IN THE EASTERN SUBTROPICAL NORTH
10/17/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: L THOMPSON
Tech. Officer: GSFC/G ASRAR
CASE Category: 33 – OCEANOGRAPHY

NGT 5 30053 UNIVERSITY OF WASHINGTON **9916**
MEASURED AND MODELED EXPORT PRODUCTION FROM THE EQ
09/06/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J W MURRAY
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30067 UNIVERSITY OF WASHINGTON **9917**
GLOBAL CHANGE FELLOWSHIP PROGRAM: RIDGE CREST PROC GLOBAL CHANGE: SYNTHESIS OF OCEANOGRAPHIC & SATEL
09/10/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: R MCDUFF
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30085 UNIVERSITY OF WASHINGTON **9918**
"TROPICAL CLOUD FEEDBACK AND MICROPHYSICAL PROCESS
09/09/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D HARTMANN
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30090 UNIVERSITY OF WASHINGTON **9919**
PREDICTING THE INTERACTION OF LAND USE AND CLIMATE RESPONSE OF MARITIME MOUNTAINOUS WATERSHEDS
09/11/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: D LETTENMAIER
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 30094 UNIVERSITY OF WASHINGTON **9920**
PHYSICAL, CHEMICAL, AND RADIATIVE PROPERTIES OF_AE BURNING IN BRAZIL/NASA EARTH SYSTEM SCIENCE FELLO
09/10/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: P V HOBBS*Prin. Invest.:* NONE
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40017 UNIVERSITY OF WASHINGTON **9921**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
12/19/1996 – 01/31/1998 FY97: $345,000 Total: $345,000
Prin. Invest.: G K PARKS
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50078 UNIVERSITY OF WASHINGTON **9922**
NUMERICAL SIMULATION OF DAMPED LYMAN–ALPHA SYSTEMS
08/26/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: G LAKE
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50095 UNIVERSITY OF WASHINGTON **9923**
X–RAY IMAGING OF AURORA IN COORDINATION WITH ISTP STUDENT RESEARCHERS PROGRAM/KIRSTEN R. LORENTZEN
08/26/1997 – 08/31/1998 FY97: $16,000 Total: $16,000
Prin. Invest.: M P MCCARTHY
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 13 – PHYSICS

NAG 3 1387 WASHINGTON STATE UNIVERSITY **9924**
BUBBLE DYNAMICS, TWO–PHASE FLOW & BOILING HEAT TRA NSFER IN A MICROGRAVITY ENVIRONMENT
12/23/1992 – 09/14/1998 FY97: $0 Total: $362,233
Prin. Invest.: J N CHUNG
Tech. Officer: LERC/F P CHIARAMONTE
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1622 WASHINGTON STATE UNIVERSITY **9925**
STABILIZATION & LOW FREQUENCY OSCILLATIONS OF CAPI LLARY BRIDGES WITH MODULATED ACOUSTIC RADITION PR
06/23/1994 – 09/30/1996 FY97: $0 Total: $100,000
Prin. Invest.: P L MARSTON
Tech. Officer: LERC/R J SKARDA
CASE Category: 13 – PHYSICS

NAG 3 1881 WASHINGTON STATE UNIVERSITY **9926**
ZNSE WINDOW LAYERS FOR GAAS AND GAIP2 CELLS
05/14/1996 – 05/31/1997 FY97: $0 Total: $20,000
Prin. Invest.: L OLSEN
Tech. Officer: LERC/S G BAILEY
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1918 WASHINGTON STATE UNIVERSITY **9927**
PASSIVE OR ACTIVE RADIATION STRESS STABILIZATION O F (AND COUPLING TO) LIQUID BRIDGES & BRIDGE NETWO
07/12/1996 – 07/11/2000 FY97: $50,000 Total: $150,000
Prin. Invest.: P L MARSTON
Tech. Officer: LERC/R SKARDA
CASE Category: 13 – PHYSICS

NAG 3 2044 WASHINGTON STATE UNIVERSITY **9928**
ZNSEX SY WINDOW LAYERS FOR GAAS AND GAINP2 SOLAR C ELLS
04/29/1997 – 05/31/1998 FY97: $28,000 Total: $28,000
Prin. Invest.: L OLSEN
Tech. Officer: LERC/S G BAILEY
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 5 4035 WASHINGTON STATE UNIVERSITY **9929**
RECONSTRUCTION OF THREE–DIMENSIONAL SHAPE AND SPIN FROM RADAR DATA
02/27/1997 – 03/28/1998 FY97: $39,704 Total: $39,704
Prin. Invest.: D HUDSON
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4841 WASHINGTON STATE UNIVERSITY **9930**
CALCIUM/CALMODULIN–MEDIATED GRAVITROPIC RESPONSE I
06/19/1997 – 05/31/1998 FY97: $121,700 Total: $121,700
Prin. Invest.: B POOVAIAH
Tech. Officer: GSFC/M AVERNER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 6153 WASHINGTON STATE UNIVERSITY **9931**
NEW MEASUREMENT TECHNIQUES FOR SATELLITE AND SHUTT MEASUREMENTS.
09/08/1997 – 09/14/1998 FY97: $25,000 Total: $25,000
Prin. Invest.: G MOUNT
Tech. Officer: GSFC/E HILSENRATH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3807 WASHINGTON STATE UNIVERSITY **9932**
CALCIUM MESSENGER SYSTEM
10/28/1993 – 10/31/1996 FY97: $0 Total: $220,000
Prin. Invest.: B W POOVAIAH
Tech. Officer: HQ/T W HALSTEAD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 4636 WASHINGTON STATE UNIVERSITY **9933**
RECONSTRUCTION OF THREE–DIMENSIONAL SHAPE AND SPIN STATE OF ASTEROIDS FROM RADAR DATA
07/31/1995 – 03/31/1997 FY97: –$111 Total: $79,62
Prin. Invest.: R HUDSON
Tech. Officer: HQ/H BRINTON
CASE Category: 11 – ASTRONOMY

NAG10 164 WASHINGTON STATE UNIVERSITY **9934**
EFFECTS OF GRAVITY
06/08/1995 – 06/18/1998 FY97: $78,639 Total: $276,801
Prin. Invest.: N G LEWIS
Tech. Officer: KSC/W M KNOTT
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAS 3 23901 WASHINGTON STATE UNIVERSITY **9935**
SCIENTIFIC SUPPORT FOR AN ORBITER EXPERIMENT ON SOLID SURFACE COMBUSTION
12/19/1984 – 12/19/1997 FY97: $0 Total: $1,177,895
Prin. Invest.: R A ALTENKIRCH
Tech. Officer: LERC/K R SACKSTEDER
CASE Category: 49 – ENGINEERING, OTHER

NCC 2 5182 WASHINGTON STATE UNIVERSITY **9936**
EXAMINATION OF TRIP DISK PERFORMANCE FOR HIGH–SPEE D WING MODEL TESTING
06/26/1996 – 06/30/1998 FY97: $39,707 Total: $79,544
Prin. Invest.: D WESTPHAL
Tech. Officer: ARC/R A KENNELLY, ARC/D M DRIVER
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 3 564 WASHINGTON STATE UNIVERSITY **9937**
REFLIGHT OF THE SOLID SURFACE COMBUSTION EXPERIMEN T WITH EMPHASIS ON FLAME RADIATION NEAR EXTINCTIO
06/17/1997 – 06/03/1998 FY97: $120,000 Total: $120,000
Prin. Invest.: R A ALTENKIRCH
Tech. Officer: LERC/K R SACKSTEDER
CASE Category: 49 – ENGINEERING, OTHER

NCC 8 92 WASHINGTON STATE UNIVERSITY **9938**
"STUDY OF MAGNETIC DUMPING EFFECT ON CONVECTION & SOLIDIFICATION UNDER G–JITTER CONDITIONS"
04/19/1996 – 04/21/1998 FY97: $45,000 Total: $135,000
Prin. Invest.: B Q LI
Tech. Officer: MSFC/C R TALLEY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NGT 51672 WASHINGTON STATE UNIVERSITY **9939**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/08/1996 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: J N CHUNG
Tech. Officer: HQ/G LESANE
CASE Category: 46 – MECHANICAL ENGR

NGT 3 52330 WASHINGTON STATE UNIVERSITY **9940**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/10/1997 – 08/15/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: P MARSTON
Tech. Officer: LERC/F J MONTEGANI
CASE Category: 13 – PHYSICS

NGT 5 50138 WASHINGTON STATE UNIVERSITY **9941**
MICROGRAVITY BOILING IN AN ACOUSTIC FIELD
09/10/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J N CHUNG
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAGW 5034 WESTERN WASHINGTON UNIVERSITY **9942**
ANALYSIS OF LAND–USE EFFECTS ON LANDSCAPE PATTERNS AND BIOLOGICAL DIVERSITY IN PACIFIC NW FOREST
05/06/1996 – 02/28/1997 FY97: $0 Total: $35,296
Prin. Invest.: D O WALLIN
Tech. Officer: HQ/D E WICKLAND, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

WEST VIRGINIA

NCCW 50 FAIRMONT STATE COLLEGE **9943**
LOW COST IN–SITU CORRELATIVE MEASUREMENT PROJECT T O VALIDATE REMORELY SENSED DATA
07/20/1994 – 03/31/1996 FY97: $0 Total: $100,000
Prin. Invest.: C WHITE
Tech. Officer: HQ/K NIEWOEHNER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3859 MARSHALL UNIVERSITY **9944**
INTERACTION OF LIGHT AND ETHYLENE
01/21/1994 – 06/30/1996 FY97: $0 Total: $86,785
Prin. Invest.: M HARRISON
Tech. Officer: HQ/T W HALSTEAD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 9 24 UNIVERSITY OF CHARLESTON –WEST VIRGINIA **9945**
GRADUATE STUDENT RESEARCH PROGRAM
06/02/1997 – 07/01/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: C COOMBS, J NETTLES
Tech. Officer: JSC/D A MORRISON
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT13 52708 UNIVERSITY OF CHARLESTON –WEST VIRGINIA **9946**
REMOTE SENSING AND GIS TECHNOLOGIES TO LIMITED RESOURCE FARMING OPERATIONSON JOHNS ISLAND, SC
05/23/1996 – 08/01/1998 FY97: $22,000 Total: $44,000
Prin. Invest.: D COOMBS
Tech. Officer: SSC/A JOYCE
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAG 1 1584 WEST VIRGINIA UNIVERSITY **9947**
NASP PROPULSION AIRFRAME INTEGRATION FOR SUBSONIC AFT BODY DRAG ALLEVIATION
12/21/1993 – 06/30/1997 FY97: $1,393 Total: $232,388
Prin. Invest.: J L LOTH, G J MORRIS, R E WALTERS
Tech. Officer: LARC/D E REUBUSH, LARC/B L BERRIER
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1635 WEST VIRGINIA UNIVERSITY **9948**
THE ROLE OF TURBULENT MIXING IN THE CHEMISTRY AND DISPERSION OF THE WAKE OF SUBSONIC AIRCRAFT
07/26/1994 – 06/30/1997 FY97: $62,386 Total: $269,836
Prin. Invest.: W S LEWELLEN
Tech. Officer: LARC/W GROSE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1892 WEST VIRGINIA UNIVERSITY **9949**
INVESTIGATION OF POINT DOPPLER VELOCIMETRY (PDV) FOR TRANSITION DETECTION IN BOUNDARY LAYERS
01/13/1997 – 01/12/1998 FY97: $49,998 Total: $49,998
Prin. Invest.: J M KUHLMAN
Tech. Officer: LARC/J F MEYERS
CASE Category: 49 – ENGINEERING, OTHER

NAG 2 1134 WEST VIRGINIA UNIVERSITY **9950**
VITAL: V & V THROUGH INCONSISTENCE TRACKING & ANA LYSIS"
06/25/1997 – 10/31/1997 FY97: $40,000 Total: $40,000
Prin. Invest.: J R CALLAHAN, S M ESTERBROOK, NONE
Tech. Officer: ARC/M R LOWRY
CASE Category: 22 – COMPUTER SCIENCE

NAG 2 1158 WEST VIRGINIA UNIVERSITY **9951**
AIRNET REMOTELY CONTROLLED B747 & B777 SCALE MODEL S W/ON-BOARD MICROPROCESSORS-BASED NEURAL
08/25/1997 – 06/30/1998 FY97: $75,000 Total: $75,000
Prin. Invest.: M R NAPOLITANO
Tech. Officer: ARC/W F BROOKS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 1921 WEST VIRGINIA UNIVERSITY **9952**
MAGNETHOTHERMAL CONVECTION IN NONCONDUCTING DIAMAG NETIC PARAMAGNETIC FLUIDS
07/23/1996 – 06/02/1998 FY97: $120,000 Total: $250,000
Prin. Invest.: D F EDWARDS, D D GRAY
Tech. Officer: LERC/N R HALL
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 2129 WEST VIRGINIA UNIVERSITY **9953**
A COLLABORATIVE AND CONCURRENT ENVIRONMENT FOR IV & V
11/09/1992 – 12/31/1996 FY97: $0 Total: $1,652,734
Prin. Invest.: J T JUREWICZ, J R CALLAHAN, H H AMMAR
Tech. Officer: GSFC/J GITELMAN
CASE Category: 22 – COMPUTER SCIENCE

NAGW 4286 WEST VIRGINIA UNIVERSITY **9954**
INCORPORATION OF SPACE STATION ROBOT SUBSYSTEM DES IGN INTO ELECTRICAL AND COMPUTER
02/03/1995 – 12/31/1995 FY97: -$6,476 Total: $19,864
Prin. Invest.: R L MCCONNELL
Tech. Officer: HQ/A S MCGEE, HQ/G JOHNSTON
CASE Category: 49 – ENGINEERING, OTHER

NAGW 4464 WEST VIRGINIA UNIVERSITY **9955**
DEVELOPING NATIONALLY COMPETITIVE NASA RESEARCH CA PABILITY IN WEST VIRGINIA
05/15/1995 – 02/28/1997 FY97: $0 Total: $150,000
Prin. Invest.: F CALZONETTI
Tech. Officer: HQ/A S MCGEE, HQ/E T SCHWARTZ
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 2 759 WEST VIRGINIA UNIVERSITY **9956**
DETERMINATION OF STABILITY & CONTROL DERIVATIVES F O THE F/A-18 HARV FROM FLIGHT DATA USING THE.....
05/20/1992 – 04/14/1998 FY97: $53,953 Total: $280,415
Prin. Invest.: M R NAPOLITANO, J M SPAGNUOLO
Tech. Officer: ARC/A H BOWERS
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 979 WEST VIRGINIA UNIVERSITY **9957**
APPLIED RESEARCH IN SOFTWARE VERIFICATION & VALIDA TION
02/27/1997 – 10/31/1997 FY97: $1,976,283 Total: $1,976,283
Prin. Invest.: J R CALLAHAN, J SHAUB, S M EASTERBROOK
Tech. Officer: ARC/D S OZBURN, ARC/K M KEMP
CASE Category: 49 – ENGINEERING, OTHER

NCC 2 6009 WEST VIRGINIA UNIVERSITY **9958**
NASA/WVU EDUCATIONAL COLLABORATION
05/09/1997 – 04/30/1998 FY97: $147,000 Total: $147,000
Prin. Invest.: E E GOTTLIEB
Tech. Officer: ARC/T WILSON, ARC/D OZBURN
CASE Category: 22 – COMPUTER SCIENCE

NCCW 51 WEST VIRGINIA UNIVERSITY **9959**
LOW COST IN SITU CORRELATIVE MEASUREMENT PROJECT
06/14/1994 – 08/31/1996 FY97: $0 Total: $1,000,000
Prin. Invest.: R E WALTER
Tech. Officer: HQ/K NIEWOEHNER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 40047 WEST VIRGINIA UNIVERSITY **9960**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
07/24/1991 – 09/30/1998 FY97: $0 Total: $1,004,000
Prin. Invest.: J T JUVEWICZ
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51098 WEST VIRGINIA UNIVERSITY **9961**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/01/1993 – 06/30/1996 FY97: -$50 Total: $65,950
Prin. Invest.: D W LYONS
Tech. Officer: HQ/E MASSEY
CASE Category: 46 – MECHANICAL ENGR

NGT 51200 WEST VIRGINIA UNIVERSITY **9962**
GRAD STUDENT RESEARCHERS PROGRAM
04/25/1994 – 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: D LYONS
Tech. Officer: MSFC/F SIX
CASE Category: 46 – MECHANICAL ENGR

NGT 51370 WEST VIRGINIA UNIVERSITY **9963**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/08/1994 – 06/30/1998 FY97: $0 Total: $66,000
Prin. Invest.: J G WELLS
Tech. Officer: LARC/L EVANS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 40055 WEST VIRGINIA UNIVERSITY **9964**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
02/12/1997 – 02/28/1998 FY97: $205,000 Total: $205,000
Prin. Invest.: M JARAIEDI
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50009 WEST VIRGINIA UNIVERSITY **9965**
ASSESSING THE CONSEQUENCES OF OZONE DEPLETION ON EFFECTS OF ULTRAVIOLET-B RADIATION ON PLANT LITER Q
02/10/1997 – 08/31/1997 FY97: $44,000 Total: $44,000
Prin. Invest.: W T PETERJOHN
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 5 50103 WEST VIRGINIA UNIVERSITY **9966**
DEBRIS SLIDE HAZARDS IN THE CENTRAL APPALACHIANS: CONTROL-LING FACTORS VIA LARGE SCALE SURFICIAL MAPP
09/06/1997 – 08/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: S KITE
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 8 52808 WEST VIRGINIA UNIVERSITY **9967**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/23/1995 – 07/31/1998 FY97: $22,000 Total: $66,000
Prin. Invest.: L E BANTA
Tech. Officer: MSFC/F SIX, MSFC/S COTHREN
CASE Category: 46 – MECHANICAL ENGR

NCC 5 71 WEST VIRGINIA WEYSLEYAN COLLEGE **9968**
SPECTROSCOPIC INVESTIGATIONS ON THE FORMATION, COM POSITION, AND PROPERTIES OF PRE–SOLAR DUST GAINS
06/01/1994 – 04/30/1998 FY97: $14,470 Total: $35,708
Prin. Invest.: P A WITHEY
Tech. Officer: GSFC/J A NUTH, GSFC/J E ALLEN
CASE Category: 11 – ASTRONOMY

NAGW 2486 WHEELING JESUIT COLLEGE **9969**
DESIGN AND CONSTRUCTION MANAGEMENT SERVICES FOR TH E CLASS-ROOM OF THE FUTURE PROJECT
04/25/1991 – 12/31/1996 FY97: $0 Total: $11,000,000
Prin. Invest.: T ACKER
Tech. Officer: HQ/F DURSO
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 5 107 WHEELING JESUIT COLLEGE **9970**
EXPLORING THE ENVIRONMENT
09/22/1994 – 09/21/1997 FY97: $590,000 Total: $1,800,000
Prin. Invest.: R MYERS
Tech. Officer: GSFC/A F HASLER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCC 5 203 WHEELING JESUIT COLLEGE **9971**
CLASSROOM OF THE FUTURE
06/09/1997 – 12/31/1997 FY97: $999,999 Total: $999,999
Prin. Invest.: D MILLER
Tech. Officer: GSFC/M PHELPS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCCW 12 WHEELING JESUIT COLLEGE **9972**
CLASSROOM OF THE FUTURE
02/13/1991 – 11/30/1996 FY97: $0 Total: $9,655,629
Prin. Invest.: C D MILLER
Tech. Officer: HQ/M V PHELPS
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCCW 14 WHEELING JESUIT COLLEGE **9973**
THE DEVELOPMENT, DEMONSTRATION AND IMPLEMENTATION OF NATIONAL TECHNOLOGY TRANSFER CENTER
04/24/1991 – 04/23/1996 FY97: –$20,000 Total: $28,422,398
Prin. Invest.: L W RIVERS
Tech. Officer: HQ/J ROOT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NCCW 65 WHEELING JESUIT COLLEGE **9974**
NATIONAL TECHNOLOGY TRANSFER CENTER
11/01/1994 – 10/31/1999 FY97: $10,186,096 Total: $34,378,119
Prin. Invest.: L W RIVER
Tech. Officer: HQ/J ROOT
CASE Category: 99 – MULTI INTERDISCPL, OTHER

WISCONSIN

NAG 5 1620 BELOIT COLLEGE **9975**
SUPPORT OF HST AND GTO OBSERVATORIES
05/28/1991 – 10/31/1997 FY97: $0 Total: $386,165
Prin. Invest.: D J SCHROEDER
Tech. Officer: GSFC/S SOBIESKI
CASE Category: 11 – ASTRONOMY

NAG 2 636 MARQUETTE UNIVERSITY **9976**
THE EFFECT OF WEIGHTLESSNESS ON SINGEL MUSCLE FIB ER FUNC-TION IN RHESUS MONKEYS
05/17/1990 – 01/31/1998 FY97: $91,000 Total: $809,398
Prin. Invest.: R H FITTS
Tech. Officer: ARC/C M WINGET
CASE Category: 56 – MEDICL

NAG 5 2199 MARQUETTE UNIVERSITY **9977**
PARALLEL DECOMPOSITION OPTIMIZATION ALGORITHMS FOR LARGE-SCALE NEURAL NETWORK IMPLEMENTATION. . .
02/18/1993 – 03/31/1997 FY97: $0 Total: $90,000
Prin. Invest.: X FENG
Tech. Officer: GSFC/J R FISCHER
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 6058 MARQUETTE UNIVERSITY **9978**
"LIMB MUSCLE FUNCTION WITH UNLOADING AND AND COUNT
07/29/1997 – 03/31/1998 FY97: $143,378 Total: $143,378
Prin. Invest.: R FITTS
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 8 256 MARQUETTE UNIVERSITY **9979**
JOVE
12/02/1992 – 11/30/1995 FY97: –$3,165 Total: $74,835
Prin. Invest.: J RICHIE, K AKBAY
Tech. Officer: MSFC/F SIX
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 1111 MARQUETTE UNIVERSITY **9980**
LINEARIZATION OF AN ANNULAR IMAGE BY A DIFFRACTIVE OPTIC
11/28/1994 – 12/14/1996 FY97: $0 Total: $7,674
Prin. Invest.: MATTHYS
Tech. Officer: MSFC/H J COLE, MSFC/J W BILBRO
CASE Category: 13 – PHYSICS

NAG 8 1252 MARQUETTE UNIVERSITY **9981**
RESEARCH "GENERATING BINARY OPTIC MUSKS FROM AN ANALYTIC PHASE FUNCTION"
12/10/1996 – 12/15/1997 FY97: $14,025 Total: $14,025
Prin. Invest.: D MATTHYS, S.J.
Tech. Officer: MSFC/H COLE, MSFC/B BEABOUT
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 9 925 MARQUETTE UNIVERSITY **9982**
RESEARCH/2–PHASE FLOW FOR SYSTEM COMPONENTS
01/24/1997 – 09/30/1997 FY97: $4,385 Total: $4,385
Prin. Invest.: A B DUNCAN
Tech. Officer: JSC/K M HURLBERT
CASE Category: 41 – AERONAUTICAL ENGNR

NAGW 4376 MARQUETTE UNIVERSITY **9983**
LIMB MUSCLE FUNCTION WITH UNLOADING AND COUNTERMEA SURES
03/22/1995 – 03/31/1998 FY97: $0 Total: $270,427
Prin. Invest.: R H FITTS
Tech. Officer: HQ/R SULZMAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAS 9 18768 MARQUETTE UNIVERSITY **9984**
EFFECTS OF WEIGHTLESSNESS ON HUMAN SINGLE MUSCLE F IBER FUNCTION FOR SLS–3
08/31/1992 – 09/15/1998 FY97: $94,547 Total: $974,542
Prin. Invest.: R H FITTS
Tech. Officer: JSC/V ELLERBEE
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 2 5108 MARQUETTE UNIVERSITY **9985**
MICROCONTROLLER BASED PCM BIOTRANSCEIVER FOR THE N ASA ABTS (ADVANCED BIOTELEMETRY SYSTEM)
11/18/1994 – 06/04/1997 FY97: $0 Total: $79,670
Prin. Invest.: D C JEUTTER
Tech. Officer: ARC/J HINES
CASE Category: 45 – ELECTRICAL ENGR

NCC 2 5228 MARQUETTE UNIVERSITY **9986**
AAH CAGE OUT–LINK AND IN–LINK ANTENNA CHARACTERIZA TION
07/15/1997 – 01/31/1998 FY97: $22,692 Total: $22,692
Prin. Invest.: D JEUTTER
Tech. Officer: ARC/J W HINES
CASE Category: 45 – ELECTRICAL ENGR

NAG 2 633 MEDICAL COLLEGE OF WISCONSIN **9987**
"MORPHOLOGICAL, HISTOCHEMICAL, IMMUNOCYTOCHEMICAL, & ELEC-TROMYOGRAPHIC INVESTIGATIONSOF SPACE– ...
04/27/1990 – 01/31/1998 FY97: $0 Total: $502,824
Prin. Invest.: D A RILEY, S ELLIS, A L HAAS
Tech. Officer: ARC/C M WINGET, ARC/D SESLINE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 956 MEDICAL COLLEGE OF WISCONSIN **9988**
THE EFFECTS OF MICROGRAVITY ON NEUROMUSCULAR DEVEL OPMENT
01/20/1995 – 12/31/1997 FY97: $112,947 Total: $339,446
Prin. Invest.: D A RILEY
Tech. Officer: ARC/W E HINDS, ARC/D M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 8 1318 ST. NORBERT COLLEGE **9989**
JOVE RESEARCH
01/21/1997 – 08/31/1998 FY97: $34,934 Total: $34,934
Prin. Invest.: D POISTER
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 3 1968 UNIV WISCONSIN–PLATTEVILLE **9990**
DETERMINISTIC & PROBABILISTIC CREEP & CREEP RUPTUR E ENHANCE-MENT TO CARES/CREET
09/10/1996 – 10/31/1997 FY97: $19,000 Total: $39,000
Prin. Invest.: O JADAAN, PH.D.
Tech. Officer: LERC/N N NEMETH, LERC/L A JANOSIK
CASE Category: 46 – MECHANICAL ENGR

NAG 1 553 UNIVERSITY OF WISCONSIN – MADISON **9991**
A CONTINENTAL MIDDLE AND HIGH CLOUD PROJECT FOR FIRE
01/02/1985 – 01/31/1996 FY97: –$1 Total: $750,523
Prin. Invest.: V E SUOMI, D P WYLIE
Tech. Officer: LARC/T OWENS, LARC/T L OWENS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1568 UNIVERSITY OF WISCONSIN – MADISON **9992**
RESEARCH ON THE DESIGN AND CONSTRUCTION OF ULTRA HIGH SPEED, LLANAR, MAGNETIC MICROMOTORS
01/05/1994 – 01/04/1996 FY97: –$1,352 Total: $48,648
Prin. Invest.: H GUCKEL
Tech. Officer: LARC/N J GROOM
CASE Category: 49 – ENGINEERING, OTHER

NAG 1 1830 UNIVERSITY OF WISCONSIN – MADISON **9993**
CLOUD STATISTICS FOR NASA CLIMATE CHANGE MY 1/3
04/18/1996 – 04/17/1998 FY97: $48,500 Total: $95,044
Prin. Invest.: D WYLIE
Tech. Officer: LARC/D S MCDOUGAL, LARC/J L RAPER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1870 UNIVERSITY OF WISCONSIN – MADISON **9994**
RADIATIION BUDGET STUDIES USING CERES PATHFINDER COLLOCATED AVHRR AND ERBE OBSERVATIONS
09/17/1996 – 12/31/1997 FY97: $0 Total: $22,719
Prin. Invest.: S A ACKERMAN
Tech. Officer: LARC/B A BAUM
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1971 UNIVERSITY OF WISCONSIN – MADISON **9995**
GEOSTATIONARY ATMOSPHERIC SOUNDER (GAS) RETRIEVAL PER-FORMANCE STUDIES
09/18/1997 – 12/30/1997 FY97: $25,000 Total: $25,000
Prin. Invest.: A L HUANG
Tech. Officer: LARC/V S PARSONS, LARC/D E HINTON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 769 UNIVERSITY OF WISCONSIN – MADISON **9996**
RHESUS MONKEY BIOMARKERS
03/26/1992 – 03/31/1996 FY97: –$989 Total: $220,526
Prin. Invest.: A C VAILAS, J HEINER
Tech. Officer: ARC/R BALLARD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 859 UNIVERSITY OF WISCONSIN – MADISON **9997**
THE O/H, S/H, & TE DISTRIBUTIONS IN THE GALACTIC P LANE
09/23/1993 – 09/30/1998 FY97: $0 Total: $91,621
Prin. Invest.: E B CHURCHWELL, J S MATHIS, NONE
Tech. Officer: ARC/L QUAIFE, ARC/C B WILTSEE
CASE Category: 11 – ASTRONOMY

NAG 2 1009 UNIVERSITY OF WISCONSIN – MADISON **9998**
FECUNDITY OF QUAIL IN SPACELAB MICROGRAVITY
09/14/1995 – 04/30/1998 FY97: $14,400 Total: $118,654
Prin. Invest.: B C WENTWORTH
Tech. Officer: ARC/C M WINGET, ARC/G C JAHNS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 1028 UNIVERSITY OF WISCONSIN – MADISON **9999**
GALILEO NET FLUX RADIOMETER DATA ANALYSIS
03/06/1996 – 06/30/1998 FY97: $284,271 Total: $418,542
Prin. Invest.: L R SROMOVSKY
Tech. Officer: ARC/L E LASHER, HQ/R E YOUNG
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 3 1393 UNIVERSITY OF WISCONSIN – MADISON **10000**
THERMOCAPILLARY CONVECTION IN FLOATING ZONES UNDER SIMULATED REDUCED–GRAVITY CONDITIONS
12/17/1992 – 11/30/1996 FY97: $0 Total: $311,730
Prin. Invest.: S KOU
Tech. Officer: LERC/J A SALZMAN, LERC/R L THOMPSON
CASE Category: 13 – PHYSICS

NAG 3 1794 UNIVERSITY OF WISCONSIN – MADISON **10001**
DETAILED MODELING AND EXPERIMENTS OF DIESEL ENGINE FLOW, COMBUSTION AND EMISSIONS
11/13/1995 – 11/12/2000 FY97: $0 Total: $200,000
Prin. Invest.: R D REITZ, C J RUTLANND
Tech. Officer: LERC/M J VALCO
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1909 UNIVERSITY OF WISCONSIN – MADISON **10002**
THERMOCAPILLARY CONVECTION IN LOW PR MATERIAL UNDE R SIMULATED REDUCED–GRAVITY CONDITIONS
07/08/1996 – 06/20/2000 FY97: $70,000 Total: $170,000
Prin. Invest.: S KOU
Tech. Officer: LERC/B S SINGH
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 5 81 UNIVERSITY OF WISCONSIN – MADISON **10003**
RESOLUTION STUDIES AND ENERGY DIAGNOSTICS OF GLOBAL DATA DN CLIMATE MODEL SIMULATION
06/15/1980 – 07/31/1997 FY97: $0 Total: $1,939,380
Prin. Invest.: D R JOHNSON
Tech. Officer: GSFC/R M ATLAS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 647 UNIVERSITY OF WISCONSIN – MADISON **10004**
DEVELOPMENT & FLIGHT OF WIDE FIELD IMAGING SURVEY POLARMETER
03/01/1988 – 12/31/1997 FY97: $360,000 Total: $2,905,590
Prin. Invest.: K H NORDSIECK
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 674 UNIVERSITY OF WISCONSIN – MADISON **10005**
SPARTIAL HETERODYNE SPECTROMETER FOR INVESTIGATION OF INTERSTELLAR FAR ULTRAVIOLET EMISSION LINES
11/30/1990 – 01/31/1998 FY97: $270,000 Total: $1,665,999
Prin. Invest.: R J REYNOLDS
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 679 UNIVERSITY OF WISCONSIN – MADISON **10006**
COSMIC X–RAY PHYSICS
03/25/1991 – 02/28/1998 FY97: $324,316 Total: $2,424,732
Prin. Invest.: D MCCAMMON
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 1330 UNIVERSITY OF WISCONSIN – MADISON **10007**
SATELLITE & ASSEMBILATED DATA ANALYSIS OF CLIMATE
02/05/1990 – 01/31/1997 FY97: $0 Total: $723,140
Prin. Invest.: D R JOHNSON
Tech. Officer: GSFC/A ARKING
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 1416 UNIVERSITY OF WISCONSIN – MADISON **10008**
MODELING ENERGY & MASS FLUXES PRAIRIE CANOPIES
08/14/1990 – 09/30/1996 FY97: $0 Total: $232,350
Prin. Invest.: J M NORMAN
Tech. Officer: GSFC/F G HALL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 1463 UNIVERSITY OF WISCONSIN – MADISON **10009**
DUST IN THE SMALL MAGELLANIC CLOUD
09/12/1990 – 01/14/1996 FY97: –$947 Total: $20,850
Prin. Invest.: K H NORDSIECK
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 1586 UNIVERSITY OF WISCONSIN – MADISON **10010**
A FACILITY TEAM MEMBER FOR A TROPICAL RAINFALL AND ENERGY ANALYSIS EXPERIMENT
05/13/1991 – 11/30/1997 FY97: $0 Total: $486,500
Prin. Invest.: V E SUOMI
Tech. Officer: GSFC/R ADLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 1613 UNIVERSITY OF WISCONSIN – MADISON **10011**
GTO – HIGH SPEED PHOTOMETER
05/23/1991 – 10/31/1997 FY97: $0 Total: $5,215,670
Prin. Invest.: R C BLESS
Tech. Officer: GSFC/S SOBIESKI
CASE Category: 11 – ASTRONOMY

NAG 5 1683 UNIVERSITY OF WISCONSIN – MADISON **10012**
A SEARCH FOR X–RAY EMISSIONS FROM B SUPERGIANTS
07/15/1991 – 01/31/1997 FY97: $0 Total: $57,477
Prin. Invest.: J P CASSINELLI
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 1841 UNIVERSITY OF WISCONSIN – MADISON **10013**
X–RAY EMISSION FROM O–STARS
12/02/1991 – 12/14/1997 FY97: $0 Total: $56,912
Prin. Invest.: J P CASSINELLI
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 1852 UNIVERSITY OF WISCONSIN – MADISON **10014**
GODDARD HIGH RESOLUTION SPECTROGRAPH
12/17/1991 – 10/31/1998 FY97: $144,000 Total: $1,096,190
Prin. Invest.: B D SAVAGE
Tech. Officer: GSFC/A SMITH
CASE Category: 11 – ASTRONOMY

NAG 5 1893 UNIVERSITY OF WISCONSIN – MADISON **10015**
MONITORING THE RECOVERY OF PSR 0540–69 AFTER ITS G IANT GLITCH
02/10/1992 – 09/30/1997 FY97: $0 Total: $115,310
Prin. Invest.: H B OGELMAN, NONE
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 1894 UNIVERSITY OF WISCONSIN – MADISON **10016**
SOFT X–RAY SHADOWS OF CLOUDS NEAR THE URSA MAJOR N EUTRAL HYDROGEN
02/10/1992 – 02/14/1998 FY97: $0 Total: $69,921
Prin. Invest.: W T SANDERS
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2282 UNIVERSITY OF WISCONSIN – MADISON **10017**
EUV SPECTRAL LINE EMISSION FROM EARLY B STARS AND STUDY OF EUV LINE EMISSION FROM BE STARS
05/26/1993 – 06/14/1996 FY97: $0 Total: $174,043
Prin. Invest.: J P CASSINELLI
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2534 UNIVERSITY OF WISCONSIN – MADISON **10018**
DYNAMICS OF CLUSTERS OF GALAXIES
02/21/1994 – 08/14/1996 FY97: $0 Total: $4,929
Prin. Invest.: J G HOESSEL
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 2601 UNIVERSITY OF WISCONSIN – MADISON **10019**
MEASUREMENT AND SCALING OF CARBON BUDGETS FOR CONT RASTING BOREAL FOREST SITES
07/19/1994 – 05/31/1998 FY97: $287,290 Total: $784,713
Prin. Invest.: S T GOWER
Tech. Officer: GSFC/F G HALL, GSFC/P J SELLERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2694 UNIVERSITY OF WISCONSIN – MADISON **10020**
COMPRESSION AND PROGRESSIVE TRANSMISSION OF DIGITAL IMAGES
08/24/1994 – 09/30/1997 FY97: $150,000 Total: $578,837
Prin. Invest.: J W PERCIVAL
Tech. Officer: GSFC/N LAL
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2705 UNIVERSITY OF WISCONSIN – MADISON **10021**
ANOMALOUS X–RAY EMISSION FROM TAU SCO TYPE B STARS
08/24/1994 – 02/28/1998 FY97: $0 Total: $28,472
Prin. Invest.: J CASSINELLI
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 2720 UNIVERSITY OF WISCONSIN – MADISON **10022**
CONTINUING INVESTIGATION OF SINGLE–PHOTON CALORI– METERS FOR X–RAY SPECTROSCOPY
09/08/1994 – 09/30/1997 FY97: $100,000 Total: $220,000
Prin. Invest.: D MCCAMMON
Tech. Officer: GSFC/R L KELLEY
CASE Category: 11 – ASTRONOMY

NAG 5 2722 UNIVERSITY OF WISCONSIN – MADISON **10023**
CLIMATOLOGICAL AND MODELING STUDIES FOR SASS
09/25/1994 – 09/30/1997 FY97: $39,500 Total: $121,618
Prin. Invest.: M H HITCHMAN
Tech. Officer: GSFC/R W STEWART
CASE Category: 11 – ASTRONOMY

NAG 5 2806 UNIVERSITY OF WISCONSIN – MADISON **10024**
CLIMATOLOGICAL AND DYNAMICAL STUDIES OF THE MIDDLE ATMOSPHERE
12/01/1994 – 12/14/1997 FY97: $85,136 Total: $241,874
Prin. Invest.: M H HITCHMAN
Tech. Officer: GSFC/C H JACKMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2846 UNIVERSITY OF WISCONSIN – MADISON **10025**
STATISTICAL ANALYSIS OF ATMOSPHERIC TEMPERATURE AND OZONE DATA TREND FEATURES AND COMPARISONS
12/15/1994 – 01/14/1998 FY97: $32,370 Total: $102,370
Prin. Invest.: G C REINSEL
Tech. Officer: GSFC/R D MCPETERS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2854 UNIVERSITY OF WISCONSIN – MADISON **10026**
MULTI–WAVELENGTH DIAGNOSTICS OF ROTATION AND NON–S PHERICAL WINDS IN THE WOLF–RAYET STAR
12/22/1994 – 01/14/1998 FY97: $0 Total: $227,999
Prin. Invest.: J P CASSINELLI
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 2877 UNIVERSITY OF WISCONSIN – MADISON **10027**
SATELLITE DATA DRIVEN REAL – TIME AGRICULTURAL MAN AGEMENT DECISION AIDS
01/19/1995 – 01/31/1998 FY97: $278,121 Total: $841,954
Prin. Invest.: G DIAK
Tech. Officer: GSFC/F HASLER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2906 UNIVERSITY OF WISCONSIN – MADISON **10028**
INTERCOMPARISON VISUALIZATION, AND ANALYSIS TESTBE D SYSTEM FOR EOS GLOBAL ASSIMILATED DATA
03/10/1995 – 05/14/1997 FY97: $40,000 Total: $245,000
Prin. Invest.: W HIBBARD
Tech. Officer: GSFC/A F HALSER, GSFC/A J NEGRI
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 2915 UNIVERSITY OF WISCONSIN – MADISON **10029**
PRE–MAIN SEQUENCE STARS FAR FROM STAR–FORMING REGIONS
03/17/1995 – 03/31/1997 FY97: $0 Total: $16,083
Prin. Invest.: R MATHIEU
Tech. Officer: GSFC/R PETRE
CASE Category: 12 – CHEMISTRY

NAG 5 3021 UNIVERSITY OF WISCONSIN – MADISON **10030**
A SEARCH FOR NEW GEMINGAS IN THE ROSAT ARCHIVE
07/21/1995 – 07/31/1997 FY97: $0 Total: $86,491
Prin. Invest.: H OGELMAN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3080 UNIVERSITY OF WISCONSIN – MADISON **10031**
DIFFUSE X-RAY SPECTROMETER (DXS) INVESTIGATION
09/25/1995 – 09/30/1997 FY97: $0 Total: $315,282
Prin. Invest.: W T SANDERS
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3122 UNIVERSITY OF WISCONSIN – MADISON **10032**
HYDRODYNAMICS OF COSMOLOGICAL GAMMA-RAY BURSTS
10/18/1995 – 10/31/1996 FY97: $0 Total: $25,000
Prin. Invest.: W KLUZNIAK
Tech. Officer: GSFC/J P NORRIS, GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3155 UNIVERSITY OF WISCONSIN – MADISON **10033**
HOT GAS, EXPLOSIVE EVENTS, AND STRUCTURE IN THE INTERSTELLAR MEDIUM
01/17/1996 – 01/14/1998 FY97: $0 Total: $114,070
Prin. Invest.: D P COX
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3193 UNIVERSITY OF WISCONSIN – MADISON **10034**
CONTRAIL AND CLOUD EFFECT SPECIAL STUDY (SUCCESS)
04/12/1996 – 12/14/1997 FY97: $0 Total: $159,000
Prin. Invest.: S ACKERMAN
Tech. Officer: GSFC/S C TSAY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3245 UNIVERSITY OF WISCONSIN – MADISON **10035**
CIMMS PARTICIPATION IN CAMEX II
05/28/1996 – 05/31/1997 FY97: $0 Total: $50,000
Prin. Invest.: W L SMITH, H E RAVERCOMB, R O KNUTESON
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3315 UNIVERSITY OF WISCONSIN – MADISON **10036**
THE VELOCITY OF WOLF-RAYET WINDS FROM IR LINE AND OCNTINUUM OBSERVATIONS.
07/31/1996 – 08/14/1997 FY97: $0 Total: $187,299
Prin. Invest.: J P CASSINE III
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3377 UNIVERSITY OF WISCONSIN – MADISON **10037**
ULTRAVIOLET INTERSTELLAR POLARIZATION AND NEW INSI GHTS INTO INTERSTELLAR DUST GRAINS
09/06/1996 – 09/14/1997 FY97: $0 Total: $9,654
Prin. Invest.: K H NORDSIECK
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3430 UNIVERSITY OF WISCONSIN – MADISON **10038**
EXPLORING ASSYMETRIES IN CIRCUMSTELLAR ENVIRONMENT THINGS THAT GO CLUMP IN THE LIGHT
09/26/1996 – 09/30/1997 FY97: -$45,400 Total: $34,599
Prin. Invest.: K WOOD
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3493 UNIVERSITY OF WISCONSIN – MADISON **10039**
"EVAPOTRANSPIRATION AND SENSIBLE HEATING EVALUATED IN-SITU USING AN OPTIMAL ESTIMATION APPROACH
12/30/1996 – 09/30/1997 FY97: $115,000 Total: $115,000
Prin. Invest.: G R DIAK
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3506 UNIVERSITY OF WISCONSIN – MADISON **10040**
EXPERIMENTAL INVESTIGATION OF COOLING AND REHEATIN G OF NEUTRON STARS
10/30/1996 – 04/30/1998 FY97: $122,000 Total: $122,000
Prin. Invest.: H B OGELMAN
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3513 UNIVERSITY OF WISCONSIN – MADISON **10041**
INTEGRATING BIOGEOCHEMICAL ECOLOGICAL AND HYDROLOG DYNAMIC BIOSPHERE
11/18/1996 – 11/14/1997 FY97: $294,311 Total: $294,311
Prin. Invest.: J A FOLEY
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3524 UNIVERSITY OF WISCONSIN – MADISON **10042**
STUDIES OF THE HOT INTERSTELLAR MEDIUM AND HALO OF STRUCTURE & SPECTRAL CHARACTERISTICS OF THE LOW E
11/13/1996 – 11/14/1997 FY97: $29,390 Total: $29,390
Prin. Invest.: W T SANDERS
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3703 UNIVERSITY OF WISCONSIN – MADISON **10043**
EFFECTS AND DIAGNOSTICS OF EUV/X-RAY IONIZATION IN AND W
01/24/1997 – 01/31/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: J J MACFARLANE
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3769 UNIVERSITY OF WISCONSIN – MADISON **10044**
NEW MATHEMATICAL METHODS FOR VARIATIONAL OBJECTIVE ESTIMATION
02/13/1997 – 12/31/1997 FY97: $90,000 Total: $90,000
Prin. Invest.: G WAHBA
Tech. Officer: GSFC/K H BERGMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3943 UNIVERSITY OF WISCONSIN – MADISON **10045**
COLLABORATIVE ANALYSIS AND VISUALIZATION OF SPACE JAVA AND VISAD
03/03/1997 – 02/28/1998 FY97: $143,000 Total: $143,000
Prin. Invest.: D T SANDERS
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 4032 UNIVERSITY OF WISCONSIN – MADISON **10046**
HZE RADIATION GENOTOXICITY IN CULTURED MANNALIAN C
02/27/1997 – 02/28/1998 FY97: $165,432 Total: $165,432
Prin. Invest.: S I SUKHAVREV
Tech. Officer: GSFC/T SCOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 4259 UNIVERSITY OF WISCONSIN – MADISON **10047**
THE MEASUREMENT OF VACUUM ULTRAVIOLET ATOMIC TRANS ASTROPHYSICAL INTEREST
04/09/1997 – 12/31/1997 FY97: $88,500 Total: $88,500
Prin. Invest.: D E LAWLER
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 4398 UNIVERSITY OF WISCONSIN – MADISON **10048**
MODELING AND ANALYSIS OF GLOBAL AND REGIONAL CLIMA TO ATMOSPHERIC HYDROLOGIC PROCESSES
04/16/1997 – 04/14/1998 FY97: $110,000 Total: $110,000
Prin. Invest.: D R JOHNSON*Prin. Invest.:* NONE
Tech. Officer: GSFC/S SCHUBERT
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4484 UNIVERSITY OF WISCONSIN – MADISON **10049**
CO–INVESTIGATOR TO NRA–96–OSS–07 "PRECISION BALLOO OF ANISO-TROPY IN THE CMBR"
05/30/1997 – 05/31/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: P TIMBIE
Tech. Officer: GSFC/R SILVERBERG
CASE Category: 13 – PHYSICS

NAG 5 4596 UNIVERSITY OF WISCONSIN – MADISON **10050**
MOLECULAR CLONING OF THE ARABIDOPSIS THAILIANA AGR
05/16/1997 – 02/28/1998 FY97: $135,613 Total: $135,613
Prin. Invest.: P MASSON
Tech. Officer: GSFC/T SCOTT
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 4625 UNIVERSITY OF WISCONSIN – MADISON **10051**
NATURE OF THE X–RAY SPECTRUM OF W50 ASSOCIATED WIT
05/21/1997 – 05/31/1998 FY97: $26,092 Total: $26,092
Prin. Invest.: H OGELMAN
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 4751 UNIVERSITY OF WISCONSIN – MADISON **10052**
CHARACTERIZING THE SPATIAL AND TERMPORAL DISTRIBUT THICKNESS OVER THE ATLANTIC BASIN UTILIZING GOES–
06/17/1997 – 05/31/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: E PRINS
Tech. Officer: GSFC/B N HOLBEN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4761 UNIVERSITY OF WISCONSIN – MADISON **10053**
AN EUVE STUDY OF THE B STARS EPSILON CMA AND BETA
06/10/1997 – 06/14/1998 FY97: $14,478 Total: $14,478
Prin. Invest.: J P CASSINELLI
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 5091 UNIVERSITY OF WISCONSIN – MADISON **10054**
NUV–FUV PHOTO–POLARIMETRY OF C(1)1657A AND DUST CONTINUUM EMISSIONS FROM COMET HALE–BOPP
10/23/1996 – 11/30/1997 FY97: $95,644 Total: $95,644
Prin. Invest.: W M HARRIS
Tech. Officer: GSFC/L W GURKIN
CASE Category: 13 – PHYSICS

NAG 5 6248 UNIVERSITY OF WISCONSIN – MADISON **10055**
PLANETARY IMAGING FOURIER TRANSFORM SPECTROMETER
08/19/1997 – 07/31/1998 FY97: $150,000 Total: $150,000
Prin. Invest.: D A SROMOVSKY
Tech. Officer: GSFC/B CAMPBELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 6342 UNIVERSITY OF WISCONSIN – MADISON **10056**
THE ISOTOPIC COMPOSITION OF IRON: A CHEMICAL FING LIFE
09/15/1997 – 08/31/1999 FY97: $63,000 Total: $63,000
Prin. Invest.: B L BEARD
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 8 927 UNIVERSITY OF WISCONSIN – MADISON **10057**
ATMOSPHERIC SOUDING
07/28/1992 – 12/02/1996 FY97: $0 Total: $195,000
Prin. Invest.: G R DIAK
Tech. Officer: MSFC/F R ROBERTSON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 1068 UNIVERSITY OF WISCONSIN – MADISON **10058**
CONTINERLESS PROCESSING OF COMPOSITE MATERIALS
07/14/1994 – 08/23/1997 FY97: $0 Total: $99,608
Prin. Invest.: J PEREPEZKO
Tech. Officer: MSFC/M B ROBINSON, MSFC/B SCHRICK
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1278 UNIVERSITY OF WISCONSIN – MADISON **10059**
ANALYSIS OF CONTAINERLESS PROCESSING & UNDERCOOLED SOLIDI-FICATION MICTROSTRUCTURES
04/22/1996 – 04/21/1997 FY97: $50,000 Total: $150,000
Prin. Invest.: J H PEREPEZKO
Tech. Officer: MSFC/D R WOODARD, MSFC/R W ALLEN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1320 UNIVERSITY OF WISCONSIN – MADISON **10060**
RESEARCH DEVELOPMENT OF ATMOSPHERIC PHYSICAL RETRIEVAL METHODOLOGIES USING SATELLITE DATA
01/31/1997 – 01/30/1998 FY97: $50,000 Total: $50,000
Prin. Invest.: G DIAK
Tech. Officer: MSFC/F R ROBERTSON, MSFC/J ARNOLD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 1341 UNIVERSITY OF WISCONSIN – MADISON **10061**
FOR RESEARCH "SYNCHROTRON RADIATION FUSION DRIVE FOR SPACE PROPULSION
03/19/1997 – 11/30/1997 FY97: $75,000 Total: $75,000
Prin. Invest.: J F SANTAURIUS
Tech. Officer: MSFC/W EMRISH
CASE Category: 13 – PHYSICS

NAG 9 855 UNIVERSITY OF WISCONSIN – MADISON **10062**
FOULANT RESISTANT PHOTOCATALYTIC CERAMIC ULTRAFILT RATION MEMBRANES
11/09/1995 – 10/30/1997 FY97: $34,247 Total: $102,987
Prin. Invest.: M ANDERSON
Tech. Officer: JSC/L DALL–BAUMAN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 9 953 UNIVERSITY OF WISCONSIN – MADISON **10063**
INVESTIGATION OF MIR LIFE ASSESSMENT
07/23/1997 – 07/31/1998 FY97: $60,260 Total: $60,260
Prin. Invest.: D C KAMMER
Tech. Officer: JSC/J D DAGEN
CASE Category: 42 – ASTRONAUTICAL ENGR

NAGW 975 UNIVERSITY OF WISCONSIN – MADISON **10064**
COMMERCIAL DEVELOPMENT OF SPACE
09/01/1986 – 09/30/1997 FY97: $0 Total: $12,266,500
Prin. Invest.: J G BOLLINGER, N DUFFIE
Tech. Officer: HQ/V CEVENINI, HQ/A VILLAMIL
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 1773 UNIVERSITY OF WISCONSIN – MADISON **10065**
SEARCH FOR ICE SHEET ELEVATION CHANGES IN EAST ANTARCTICA
07/19/1989 – 07/31/1996 FY97: –$609 Total: $435,425
Prin. Invest.: C R BENTLEY
Tech. Officer: HQ/R H THOMAS, HQ/W S WILSON
CASE Category: 33 – OCEANOGRAPHY

NAGW 2420 UNIVERSITY OF WISCONSIN – MADISON **10066**
DISK INSTABILITIES, BARS AND ACCRETION: FEEDING TH E MONSTER
04/19/1991 – 12/31/1996 FY97: –$69 Total: $236,290
Prin. Invest.: L S SPARKE
Tech. Officer: HQ/G S KUTTER, HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 2835 UNIVERSITY OF WISCONSIN – MADISON **10067**
NAGW-2835/UNIV WISCONSIN/GLASS FORMATION & NUCLEAT ION IN MICROGRAVITY CONTAINERLESS-PROCESSED INVIS
01/15/1992 – 01/31/1997 FY97: $0 Total: $356,000
Prin. Invest.: R F COOPER, J H PEREPEZKO
Tech. Officer: HQ/B M CARPENTER
CASE Category: 13 – PHYSICS

NAGW 2841 UNIVERSITY OF WISCONSIN – MADISON **10068**
CONTAINERLESS PROCESSING FOR CONTROLLED SOLIDIFICA TION MICROSTRUCTURES
01/31/1992 – 01/31/1997 FY97: $0 Total: $394,000
Prin. Invest.: J H PEREPEZKO
Tech. Officer: HQ/B M CARPENTER
CASE Category: 13 – PHYSICS

NAGW 2908 UNIVERSITY OF WISCONSIN – MADISON **10069**
THE MEASUREMENT OF VACUUM ULTRAVIOLET ATOMIC TRANS ITION PROBABILITIES OF ASTROPHYSICAL INTEREST
02/20/1992 – 12/31/1997 FY97: $0 Total: $440,500
Prin. Invest.: J E LAWLER
Tech. Officer: HQ/R STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 2921 UNIVERSITY OF WISCONSIN – MADISON **10070**
THEORETICAL MODELS AND ANALYSIS TOOLS FOR EUV, ULT RAVIOLET, AND OPTICAL OBSERVATIONS
02/26/1992 – 12/31/1995 FY97: –$211 Total: $114,789
Prin. Invest.: K BJORKMAN
Tech. Officer: HQ/R STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 2961 UNIVERSITY OF WISCONSIN – MADISON **10071**
SOME NEW MATHEMATICAL METHODS OF VARIATIONAL OBJEC TIVE ANALYSIS
10/09/1992 – 12/31/1996 FY97: $0 Total: $425,000
Prin. Invest.: G WAHBA
Tech. Officer: HQ/K H BERGNAN, HQ/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 2973 UNIVERSITY OF WISCONSIN – MADISON **10072**
MULTI-SATELLITE ESTIMATES OF LAND-SURFACE PROPERTI ES FOR DETERMINATION OF ENERGY AND WATER BUDGETS
03/06/1992 – 03/31/1997 FY97: $0 Total: $345,684
Prin. Invest.: W P MENZEL
Tech. Officer: HQ/J C DODGE, HQ/R A SCHIFFER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3318 UNIVERSITY OF WISCONSIN – MADISON **10073**
ASSESSING THE GEOMORPHIC EVOLUTION AND HYDROGRAPHI C CHANGES INDUCED BY WINTER STORMS ALONG THE
02/02/1993 – 09/30/1997 FY97: $0 Total: $423,302
Prin. Invest.: W P MENZEL, O K HUH
Tech. Officer: HQ/M BALTUCK
CASE Category: 32 – GEOLOGICAL SCIENCE

NAGW 3319 UNIVERSITY OF WISCONSIN – MADISON **10074**
HIGH SPECTRAL RESOLUTION OBSERVATIONS OF IO AND CO METS
01/04/1993 – 09/30/1997 FY97: $0 Total: $252,805
Prin. Invest.: F SCHERH
Tech. Officer: HQ/H C BRINTON
CASE Category: 11 – ASTRONOMY

NAGW 3804 UNIVERSITY OF WISCONSIN – MADISON **10075**
INVESTIGATION OF BIOMASS BURING AND AEROSOL LOADING AND TRNASPORT
10/29/1993 – 08/31/1997 FY97: $0 Total: $290,021
Prin. Invest.: P MENZEL, NONE
Tech. Officer: HQ/J C DODGE, HQ/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3833 UNIVERSITY OF WISCONSIN – MADISON **10076**
NAGW-3833 B UNIV. WISCON. MADISION ; INTERPRET. OF UV OBSERV. INTERSTELLER MEDIUM
12/14/1993 – 12/31/1996 FY97: $0 Total: $128,999
Prin. Invest.: J S MATHIS
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 3877 UNIVERSITY OF WISCONSIN – MADISON **10077**
NAGW-3877/B UNIV. WISC MADISON "ACCRET. DISKS & PL ANET. SYSTE. IN NEWLY FORMED, MASSIVE STARS.."
02/28/1994 – 09/30/1998 FY97: $0 Total: $235,685
Prin. Invest.: E CHURCHWELL
Tech. Officer: HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NAGW 3895 UNIVERSITY OF WISCONSIN – MADISON **10078**
UNIV WISC.; PARADISE – A PARALLEL INFORMATION SYST EM FOR EOS-DIS
03/31/1994 – 09/30/1997 FY97: $0 Total: $459,971
Prin. Invest.: D J DEWITT
Tech. Officer: HQ/G H MUCKLOW, HQ/J H BREDEKAMP
CASE Category: 22 – COMPUTER SCIENCE

NAGW 3914 UNIVERSITY OF WISCONSIN – MADISON **10079**
INGESTING DATA USING WORKSTATION CLUSTERS
04/14/1994 – 09/30/1997 FY97: $0 Total: $564,201
Prin. Invest.: M LIVNY
Tech. Officer: HQ/G H MUCKLOW, HQ/J H BREDECAMP
CASE Category: 22 – COMPUTER SCIENCE

NAGW 3921 UNIVERSITY OF WISCONSIN – MADISON **10080**
ANALYSIS AND VISUALIZATION OF SEQUENCE DATA
04/08/1994 – 02/28/1997 FY97: $0 Total: $593,696
Prin. Invest.: R RAMAKRISHNAN
Tech. Officer: HQ/G H MUCKLOW, HQ/J H BREDECAMP
CASE Category: 22 – COMPUTER SCIENCE

NAGW 3935 UNIVERSITY OF WISCONSIN – MADISON **10081**
RADIATIVE ENERGY BUDGET STUDIES USING OBSERVATIONS FROM EARTH
04/08/1994 – 09/30/1997 FY97: $0 Total: $377,214
Prin. Invest.: S A ACKERMAN, NONE
Tech. Officer: HQ/J C DODGE, HQ/R A SCHIFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 3987 UNIVERSITY OF WISCONSIN – MADISON **10082**
"EFFETCS OF HINDLIMB SUSPENSION ON SKELETAL MUSCLE GROWTH"
05/04/1994 – 03/31/1997 FY97: $0 Total: $239,387
Prin. Invest.: E SCHULTZ
Tech. Officer: HQ/T W HALSTEAD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 4022 UNIVERSITY OF WISCONSIN – MADISON **10083**
SPACE EXPERIMENT OF TUBER DEVELOPMENT AND STARCH A CCUMULATION FOR CELESS"
06/23/1994 – 09/30/1997 FY97: $0 Total: $216,908
Prin. Invest.: T W TIBBITTS, J G CROXDALE, C S BROWN
Tech. Officer: HQ/M M AVERNER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 4053 UNIVERSITY OF WISCONSIN – MADISON **10084**
MOLECULAR GENETICS OF ROOT THIGMORESPONSIVENESS IN ARABIDOPSIS THALIANA
06/30/1994 – 09/30/1997 FY97: $0 Total: $384,006
Prin. Invest.: P MASSON
Tech. Officer: HQ/T W HALSTEAD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 4138 UNIVERSITY OF WISCONSIN – MADISON **10085**
EVAPOTRANSPIRATION AND SENSIBLE HEATING EVALUATED FROM SATELLITE AND IN-SITU DATA USING OPTIMAL
10/27/1994 – 09/30/1997 FY97: $0 Total: $225,000
Prin. Invest.: G R DIAK*Prin. Invest.:* NONE
Tech. Officer: HQ/M Y WEI/J S THEON10
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4229 UNIVERSITY OF WISCONSIN – MADISON **10086**
PARADISE CLUSTERS: INEXPENSIVE SCALABLE SUPPORT FOR STANDARDIZED ACCESS TO EOSDID DATA SETS
01/13/1995 – 09/30/1997 FY97: $0 Total: $904,086
Prin. Invest.: D DEWITT
Tech. Officer: HQ/R S MCGINNIS
CASE Category: 22 – COMPUTER SCIENCE

NAGW 4273 UNIVERSITY OF WISCONSIN – MADISON **10087**
THE TEST AND EVALUATION OF UV DETECTORS
02/20/1995 – 12/31/1997 FY97: $0 Total: $42,000
Prin. Invest.: C L JOSEPH
Tech. Officer: HQ/R V STACHNIK, HQ/E J WEILER
CASE Category: 11 – ASTRONOMY

NAGW 4293 UNIVERSITY OF WISCONSIN – MADISON **10088**
ADVANCE DESIGN PROGRAM
02/08/1995 – 12/31/1995 FY97: $0 Total: $26,340
Prin. Invest.: E G LOVELL
Tech. Officer: HQ/A S MCGEE, HQ/G JOHNSTON
CASE Category: 49 – ENGINEERING, OTHER

NAGW 4527 UNIVERSITY OF WISCONSIN – MADISON **10089**
THE EFFECTS OF ROTATION ON STELLAR WINDS ASYMMETRIES AND BIPOLAR STRUCTURES
06/16/1995 – 09/30/1997 FY97: $0 Total: $100,000
Prin. Invest.: J P CASSINELLI
Tech. Officer: HQ/G R RIEGLER
CASE Category: 11 – ASTRONOMY

NAGW 4651 UNIVERSITY OF WISCONSIN – MADISON **10090**
DESIGN AND DEVELOPMENT OF INSTRUMENTATION FOR A MUTUAL OCCULTATION EXPERIMENT USING MARS ORBITERS
08/10/1995 – 06/30/1997 FY97: $0 Total: $118,900
Prin. Invest.: J ANDERSON
Tech. Officer: HQ/T KOSTIUK
CASE Category: 11 – ASTRONOMY

NAGW 4934 UNIVERSITY OF WISCONSIN – MADISON **10091**
MECHANOSENSITIVE ION CHANNELS IN BACTERIA
02/13/1996 – 05/31/1997 FY97: $0 Total: $108,368
Prin. Invest.: S I SUKHAREV, PH.D.
Tech. Officer: HQ/F SULZMAN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 4952 UNIVERSITY OF WISCONSIN – MADISON **10092**
MOLECULAR CLONING
02/24/1996 – 09/30/1997 FY97: $0 Total: $129,902
Prin. Invest.: P MASSON
Tech. Officer: HQ/V THORNE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 4988 UNIVERSITY OF WISCONSIN – MADISON **10093**
TEMPORAL EVOLUTION OF SL-9 IMPACT SITES ON JUPITER AND GLOBAL MAPS OF JUPITER FROM MULTI OBSERVATORY
02/28/1996 – 12/31/1996 FY97: $0 Total: $10,000
Prin. Invest.: S S LIMAYE
Tech. Officer: HQ/E BARKER, HQ/J RAHE
CASE Category: 33 – OCEANOGRAPHY

NAGW 5219 UNIVERSITY OF WISCONSIN – MADISON **10094**
DESIGN & DEVELOPMENT OF THE OCCULTATION RECEIVER DIGITAL SIGNAL PROCESSOR FOR MUTUAL OCCULTATION
11/18/1996 – 09/30/1997 FY97: $112,840 Total: $112,840
Prin. Invest.: W W ANDERSON
Tech. Officer: HQ/T KOSTIUK, HQ/H C BRINTON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG10 183 UNIVERSITY OF WISCONSIN – MADISON **10095**
MICRO GRAVITY EFFECTS DURING FERTILIZATION CELL DIVISION
02/15/1996 – 02/14/1997 FY97: $21,962 Total: $118,999
Prin. Invest.: H SCHATTEN
Tech. Officer: KSC/W KNOTT
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG10 206 UNIVERSITY OF WISCONSIN – MADISON **10096**
CUE COLLABORATIVE UKRAINIAN EXPEREMENT EDUCATION PROJECT
03/31/1997 – 04/03/1998 FY97: $125,751 Total: $125,751
Prin. Invest.: P WILLIAMS
Tech. Officer: KSC/W M KNOTT
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAS 1 96030 UNIVERSITY OF WISCONSIN – MADISON **10097**
CLIMATOLOGICAL AND MODELING SAGE DATA
06/20/1996 – 06/19/1999 FY97: $90,000 Total: $183,000
Prin. Invest.: M H HITCHMAN
Tech. Officer: LARC/G L MADDREA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 1960004 UNIVERSITY OF WISCONSIN – MADISON **10098**
ID/Q FOR SATELLITE DATA/SITE LICENSE
05/01/1996 – 04/30/1999 FY97: $0 Total: $0
Prin. Invest.: R L HOFFMAN
Tech. Officer: LARC/P MINNIS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 26777 UNIVERSITY OF WISCONSIN – MADISON **10099**
DEVELOPMENT OF ULTRAVIOLET PHOTO–POLARIMETER EXPERIMENT
09/04/1981 – 06/30/1998 FY97: $178,810 Total: $20,709,720
Prin. Invest.: A D CODE, K NORDSIECK
Tech. Officer: MSFC/J H OWENS
CASE Category: 11 – ASTRONOMY

NAS 5 30131 UNIVERSITY OF WISCONSIN – MADISON **10100**
SPACE TELESCOPE IMAGINE SPECTROGRAPH SUPPORT
09/22/1987 – 09/30/2001 FY97: $47,000 Total: $653,954
Prin. Invest.: F ROESLER
Tech. Officer: GSFC/H D VITAGLIANO
CASE Category: 11 – ASTRONOMY

NAS 5 31367 UNIVERSITY OF WISCONSIN – MADISON **10101**
EOS STUDY
12/30/1991 – 12/14/2001 FY97: $647,000 Total: $2,285,445
Prin. Invest.: P MENZEL
Tech. Officer: GSFC/H OSEROFF
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 31375 UNIVERSITY OF WISCONSIN – MADISON **10102**
EOS AIRS INVESTIGATION
01/13/1992 – 12/14/2001 FY97: $323,974 Total: $1,182,889
Prin. Invest.: H REVERCOMB
Tech. Officer: GSFC/E KREINS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 31377 UNIVERSITY OF WISCONSIN – MADISON **10103**
EOS INVESTIGATION: ALGORITHM DEVELOPMENT WITH HIS/ AIRS
01/08/1992 – 12/14/2001 FY97: $208,000 Total: $1,143,640
Prin. Invest.: W L SMITH
Tech. Officer: GSFC/E KREINS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 5 32646 UNIVERSITY OF WISCONSIN – MADISON **10104**
AN XRAY ANALYSIS DATABASE OF PHOTOIONIZATION CROSS SECTIONS INCLUDING VARIABLE IONIZATION
08/15/1994 – 04/15/1997 FY97: $0 Total: $142,000
Prin. Invest.: P WANG
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAS 5 33015 UNIVERSITY OF WISCONSIN – MADISON **10105**
GLRS SCIENCE TEAM MEMBER STUDY
11/01/1989 – 12/31/1997 FY97: $91,810 Total: $445,120
Prin. Invest.: C BENTLEY
Tech. Officer: GSFC/G SOFFEN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 8 38499 UNIVERSITY OF WISCONSIN – MADISON **10106**
STUDY OF GEOPLATFORM PROGRAM
01/01/1990 – 09/30/1995 FY97: $0 Total: $1,492,597
Prin. Invest.: D L SMITH, L P BRETHERTON, W P MENZEL
Tech. Officer: MSFC/H M GOODMAN
CASE Category: 32 – GEOLOGICAL SCIENCE

NCC 2 542 UNIVERSITY OF WISCONSIN – MADISON **10107**
PSYCHOPHYSICAL EVALUATION OF THREE–DIMENSIONALAUDITORY DISPLAYS
05/01/1988 – 12/31/1997 FY97: $124,981 Total: $1,283,835
Prin. Invest.: F L WIGHTMAN
Tech. Officer: ARC/E M WENZEL
CASE Category: 69 – PSYCHOLOGY, OTHER

NCC 8 52 UNIVERSITY OF WISCONSIN – MADISON **10108**
QUANITIATIVE ANALYSIS O FCRYSTAL DEFECTS BY TRIPLE CRYSTAL X–RAY DIFFRACTION
07/01/1994 – 01/25/1997 FY97: $0 Total: $99,647
Prin. Invest.: R J MATYI
Tech. Officer: MSFC/D C GILLIES, MSFC/S D COBB
CASE Category: 13 – PHYSICS

NCC 8 129 UNIVERSITY OF WISCONSIN – MADISON **10109**
R/S "CONTINUATION SUPPORT FOR WISCONSIN CENTER FOR SPACE AUTHORIZATION & ROBOTICS"
01/30/1997 – 10/31/1997 FY97: $1,793,900 Total: $1,793,900
Prin. Invest.: R J BULA
Tech. Officer: MSFC/M NALL
CASE Category: 42 – ASTRONAUTICAL ENGR

NCC13 17 UNIVERSITY OF WISCONSIN – MADISON **10110**
VISITING INVESTIGATOR PROGRAM SANE
09/27/1996 – 12/31/1997 FY97: $92,000 Total: $125,000
Prin. Invest.: T M LILLENSAND
Tech. Officer: SSC/H CARR
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 30271 UNIVERSITY OF WISCONSIN – MADISON **10111**
GLOBAL CHANGE FELLOWSHIP PROGRAM
10/10/1994 – 08/31/1997 FY97: $0 Total: $66,000
Prin. Invest.: S ACKERMAN
Tech. Officer: HQ/R A SCHIFFER, HQ/G ASRAR
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 30346 UNIVERSITY OF WISCONSIN – MADISON **10112**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/16/1995 – 12/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: J E KUTZBACH
Tech. Officer: HQ/M BALTUCK, HQ/G ASRAR
CASE Category: 33 – OCEANOGRAPHY

NGT 51003 UNIVERSITY OF WISCONSIN – MADISON **10113**
NGT-51003/UNIV WISCONSIN @ MADISON/GRADUATE STUDENT RESEARCHERS PROGRAM
08/11/1992 – 08/31/1996 FY97: -$39 Total: $65,961
Prin. Invest.: B D SAVAGE
Tech. Officer: HQ/J K ALEXANDER
CASE Category: 11 – ASTRONOMY

NGT 51132 UNIVERSITY OF WISCONSIN – MADISON **10114**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/28/1993 – 08/31/1996 FY97: $0 Total: $66,000
Prin. Invest.: E CHURCHWELL
Tech. Officer: HQ/D HOLLAND
CASE Category: 11 – ASTRONOMY

NGT 51177 UNIVERSITY OF WISCONSIN – MADISON **10115**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/18/1993 – 08/22/1996 FY97: $0 Total: $66,000
Prin. Invest.: H YUTTEN
Tech. Officer: JSC/S GOLDSTEIN
CASE Category: 22 – COMPUTER SCIENCE

NGT 51208 UNIVERSITY OF WISCONSIN – MADISON **10116**
GRAD STUDENT RESEARCHERS PROGRAM
04/25/1994 – 12/31/1996 FY97: $0 Total: $44,000
Prin. Invest.: P K WANG
Tech. Officer: GSFC/G SOFFEN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 51263 UNIVERSITY OF WISCONSIN – MADISON **10117**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/14/1994 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: J H BOOSKE
Tech. Officer: HQ/G LESANE
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 51364 UNIVERSITY OF WISCONSIN – MADISON **10118**
GRADUATE STUDENT RESEARCHERS PROGRAM
09/08/1994 – 08/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: D R SMITH
Tech. Officer: HQ/G A LESANE
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 51669 UNIVERSITY OF WISCONSIN – MADISON **10119**
GRAD STUDENT RESEARCH PROGRAM
08/15/1996 – 09/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: R COOPER
Tech. Officer: HQ/G LESANE
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 70377 UNIVERSITY OF WISCONSIN – MADISON **10120**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
08/22/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: J W SHAVIK
Tech. Officer: HQ/D K RUSSELL
CASE Category: 22 – COMPUTER SCIENCE

NGT 2 52227 UNIVERSITY OF WISCONSIN – MADISON **10121**
EXPERIMENT MANAGEMENT SUPPORT FOR PERFORMANCE TUNI NG LARGE-SCALE PARALLEL & DISTRIBUTED APPLICATION
08/04/1997 – 07/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: B P MILLER
Tech. Officer: ARC/C H SCHULBACH
CASE Category: 22 – COMPUTER SCIENCE

NGT 5 46 UNIVERSITY OF WISCONSIN – MADISON **10122**
017RECISE MEASUREMENT OF COSMOLOGICAL PARAMETERS V COSMIC MICROWAVE BACKGROUNDANISOTROPY
06/23/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: P TIMBIE
Tech. Officer: GSFC/M S BURRELL
CASE Category: 11 – ASTRONOMY

NGT 5 30037 UNIVERSITY OF WISCONSIN – MADISON **10123**
ASSIMILATION OF SPACEBORNE PASSIVE MICROWAVE MEASU CLOUD MODEL FOR IMPROVING PRECIPITATION RETRIEVAL
10/17/1996 – 08/31/1998 FY97: $44,000 Total: $44,000
Prin. Invest.: G TRIPOLI
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 50039 UNIVERSITY OF WISCONSIN – MADISON **10124**
NEW COSMOLOGICAL PROBE: POLARIZATION OF THE COSMIC
08/04/1997 – 08/31/1998 FY97: $35,667 Total: $35,667
Prin. Invest.: TIMBIE
Tech. Officer: HQ/A N URRIDDEN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50053 UNIVERSITY OF WISCONSIN – MADISON **10125**
DYNAMIC REDUCTION AND RELATED CRYSTALLINE NUCLEA
07/18/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: R COOPER
Tech. Officer: GSFC/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 5 50121 UNIVERSITY OF WISCONSIN – MADISON **10126**
DUSTY PLASMAS IN GALACTIC HALOS
09/10/1997 – 07/31/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: B D SAVAGE
Tech. Officer: HQ/A NURRIDDIN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 3 1381 UNIVERSITY OF WISCONSIN – MILWAUKEE **10127**
REWETTING OF MONOGROOVE HEAT PIPE IN SPACE STATION RADIATORS
12/23/1992 – 12/31/1997 FY97: $0 Total: $296,694
Prin. Invest.: S H CHAN
Tech. Officer: LERC/J A PLATT
CASE Category: 46 – MECHANICAL ENGR

NAG 5 4463 UNIVERSITY OF WISCONSIN – MILWAUKEE **10128**
EVOLUTIONARY RELATIONSHIPS OF S. PUTREFACIENS META
06/20/1997 – 04/30/1998 FY97: $107,277 Total: $107,277
Prin. Invest.: D H NEALSON
Tech. Officer: GSFC/M MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 8 1205 UNIVERSITY OF WISCONSIN – MILWAUKEE **10129**
JOVE
09/25/1995 – 08/31/1998 FY97: $56,000 Total: $91,000
Prin. Invest.: T DEFELICE, P ROEBBER
Tech. Officer: MSFC/D SIX
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 9 651 UNIVERSITY OF WISCONSIN – MILWAUKEE **10130**
NEUROENDOCRINE ORGANOID ASSEMBLY IN VITRO
10/28/1992 – 02/28/1998 FY97: $81,000 Total: $711,000
Prin. Invest.: P I LELKES
Tech. Officer: JSC/G SPAULDING
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 3270 UNIVERSITY OF WISCONSIN – MILWAUKEE **10131**
NAGW–3270/UNIV WISCONSION MILWAUKEE/EVOLUTIONARY R ELATION-SHIPS OF S PUTREFACIENS METAL REDUCTASES
12/04/1992 – 04/30/1997 FY97: $0 Total: $712,202
Prin. Invest.: K NEALSON
Tech. Officer: HQ/J D RUMMEL
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 1 260 UNIVERSITY OF WISCONSIN – MILWAUKEE **10132**
MESON CONTRIBUTION TO SPACE RADIATIONS MESON CONTRIBUTION TO SPACE RADIATIONS
06/13/1997 – 09/02/1997 FY97: $25,000 Total: $25,000
Prin. Invest.: J W NORBURY
Tech. Officer: LARC/F A CUCINOTTA, LARC/J W WILSON
CASE Category: 13 – PHYSICS

NCC 2 5153 UNIVERSITY OF WISCONSIN – MILWAUKEE **10133**
CAPILLARY MOVEMENT IN SUBSTRATES IN MICROGRAVITY
08/21/1995 – 03/31/1996 FY97: $132 Total: $15,000
Prin. Invest.: N A DUFFIE, R J BULA
Tech. Officer: ARC/M KLISS
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 3 557 UNIVERSITY OF WISCONSIN – MILWAUKEE **10134**
ODELING OF MEPHISTO CRYSTAL GROWTH
05/02/1997 – 11/01/1997 FY97: $20,000 Total: $20,000
Prin. Invest.: S V GARIMELLA, H DE GROH
Tech. Officer: LERC/H DE GROH
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 40035 UNIVERSITY OF WISCONSIN – MILWAUKEE **10135**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
04/30/1991 – 09/30/1997 FY97: $0 Total: $1,182,000
Prin. Invest.: G T MOORE
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51265 UNIVERSITY OF WISCONSIN – MILWAUKEE **10136**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/08/1994 – 06/30/1997 FY97: $0 Total: $66,000
Prin. Invest.: P I LELKES
Tech. Officer: HQ/D HOLLAND
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 5 40039 UNIVERSITY OF WISCONSIN – MILWAUKEE **10137**
THE NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
01/29/1997 – 02/28/1998 FY97: $229,999 Total: $229,999
Prin. Invest.: G T MOORE
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 3 1908 UNIVERSITY OF WISCONSIN – STEVENS POINT **10138**
CONTROL OF KINETICS & DEGRADATION PATH OF HI TEMP POLYMERS VIA THE USE OFSUBS GROUP ELECT EFFS
07/08/1996 – 09/30/1997 FY97: $0 Total: $20,842
Prin. Invest.: J P DROSKE
Tech. Officer: LERC/W B ALSTON
CASE Category: 12 – CHEMISTRY

NAG 8 1210 UNIVERSITY OF WISCONSIN @ WHITEWATER **10139**
JOVE
09/05/1995 – 08/31/1998 FY97: $19,000 Total: $61,000
Prin. Invest.: D PHANORD
Tech. Officer: MSFC/D SIX
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4108 UNIVERSTY OF WISCONSIN–OSHKOSH **10140**
REMOTE SENSING OF PHYTOPLANKTON PRODUCTION IN THE SOUTHERN OCEAN
04/01/1997 – 09/30/1998 FY97: $41,235 Total: $41,235
Prin. Invest.: M P LIZOTTE
Tech. Officer: GSFC/K R ARRIGO
CASE Category: 33 – OCEANOGRAPHY

WYOMING

NAG 1 1294 UNIVERSITY OF WYOMING **10141**
MECHANICAL PROPERTIES EVALUATIONS OF NEW THERMOPLA STIC AND THERMOSET POLYMER MATRICES AND COMPOSITE
07/11/1991 – 12/31/1997 FY97: $46,359 Total: $259,425
Prin. Invest.: D F ADAMS
Tech. Officer: LARC/N J JOHNSTON, LARC/P M HERGENROTHER
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 1623 UNIVERSITY OF WYOMING **10142**
AN INVESTIGATION OF AEROSOL MEASUREMENTS FROM THE HALOGEN OCCULTATION EXPERIMENT: VALIDATION, SIZE
04/26/1994 – 02/28/1998 FY97: $36,891 Total: $178,036
Prin. Invest.: T DESHLER
Tech. Officer: LARC/J G WELLS, JR., LARC/J M RUSSELL III
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1773 UNIVERSITY OF WYOMING **10143**
FLEXURE FATIGUE TESTING OF 90 DEGREE GRAPHITE/EPOX Y COM-POSITES
10/12/1995 – 04/11/1997 FY97: $0 Total: $17,020
Prin. Invest.: A W PECK
Tech. Officer: LARC/I S RAJU, LARC/T K O'BRIEN
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 2 877 UNIVERSITY OF WYOMING **10144**
COMPILING DOMAIN SPECIFIC PROGRAM SYNTHESIS SYSTEM S
01/10/1994 – 04/30/1998 FY97: $0 Total: $248,588
Prin. Invest.: J V BALLEN
Tech. Officer: ARC/S LAU
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2240 UNIVERSITY OF WYOMING **10145**
AIRBORNE INVESTIGATION OF BIOSPHERE-ATMOSPHERE INT ERAC-TIONS OVER THE BOREAL FOREST
04/08/1993 – 06/14/1997 FY97: $69,999 Total: $552,904
Prin. Invest.: R D KELLY
Tech. Officer: GSFC/F G HALL, GSFC/P SELLERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 2801 UNIVERSITY OF WYOMING **10146**
AN INVESTIGATION OF AEROSOL AND OZONE MEASUREMENTS FROM THE CRYOGENIC LIMB ARRAY ETALON
11/18/1994 – 11/30/1997 FY97: $59,801 Total: $164,773
Prin. Invest.: T DESHLER
Tech. Officer: GSFC/C H JACKMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3301 UNIVERSITY OF WYOMING **10147**
BEHAVIOUR AND PROPERTIES OF THE HARD X-RAY COMPONENT IN QS TEL
07/23/1996 – 01/31/1998 FY97: $0 Total: $15,000
Prin. Invest.: S HOWELL
Tech. Officer: GSFC/N WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 3379 UNIVERSITY OF WYOMING **10148**
THE THREE DIMENSIONAL STRUCTURE OF ACCRETION REGIO NS (NO COST TIME EXTENSION)
10/25/1996 – 06/30/1998 FY97: $57,976 Total: $57,976
Prin. Invest.: S HOWELL
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3523 UNIVERSITY OF WYOMING **10149**
THE UNIQUE ECLIPSING POLAR HU AQR
11/13/1996 – 11/14/1997 FY97: $27,522 Total: $27,522
Prin. Invest.: S B HOWELL
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 3861 UNIVERSITY OF WYOMING **10150**
ASSESSMENT OF CLIMATIC AND ANTHROPOGENIC IMPACTS O CYCLE CONSTRAINED BY ATMOSPHERIC MEASUREMENTS AND
02/03/1997 – 01/14/1998 FY97: $44,475 Total: $44,475
Prin. Invest.: E HUNT, JR.*Prin. Invest.:* NONE
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3935 UNIVERSITY OF WYOMING **10151**
INFRARED SPECKLE INTERFEROMETRY OF IO
03/25/1997 – 11/30/1997 FY97: $46,066 Total: $46,066
Prin. Invest.: D R HOWELL
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 4233 UNIVERSITY OF WYOMING **10152**
THEORETICAL STUDIES OF BINARY SYSTEMS CONTAINING C
03/31/1997 – 03/31/1998 FY97: $10,000 Total: $10,000
Prin. Invest.: S B HOWELL
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4241 UNIVERSITY OF WYOMING **10153**
AN EUVE STUDY OF THE ACCRETION MODE CHANGES IN THE
04/16/1997 – 04/14/1998 FY97: $12,052 Total: $12,052
Prin. Invest.: S B HOWELL
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 4864 UNIVERSITY OF WYOMING **10154**
A BINARY ACCRETION KEY STUDY: X-RAY PHOTOMETRY OF HU AQR
06/17/1997 – 06/30/1998 FY97: $5,200 Total: $5,200
Prin. Invest.: S B HOWELL
Tech. Officer: GSFC/R PETRE
CASE Category: 11 – ASTRONOMY

NAG 5 4869 UNIVERSITY OF WYOMING **10155**
INVESTIGATING OUTBURSTING TOADS WITH RXTE
06/26/1997 – 06/30/1998 FY97: $13,626 Total: $13,626
Prin. Invest.: S HOWELL
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAGW 1276 UNIVERSITY OF WYOMING **10156**
INFRARED SPECKLE INTERFEROMETRY
04/15/1988 – 05/31/1997 FY97: $0 Total: $267,169
Prin. Invest.: R R HOWELL
Tech. Officer: HQ/H C BRINTON, HQ/J H RAHE
CASE Category: 11 – ASTRONOMY

NAGW 2666 UNIVERSITY OF WYOMING **10157**
NAGW-2666/UNIV WYOMING/GENERAL CIRCULATION MODEL SIMULA-TIONS FOR ANTARCTICA
09/24/1991 – 09/30/1997 FY97: $0 Total: $304,556
Prin. Invest.: T R PARISH, NONE
Tech. Officer: HQ/R H THOMAS, HQ/R A SCHIFFER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 3749 UNIVERSITY OF WYOMING **10158**
VERTICAL PROFILES OF CLOUD CONDENSATION NUCLEI
10/13/1993 – 09/30/1997 FY97: $0 Total: $392,303
Prin. Invest.: T DESHER, J R SNIDER, G VALI
Tech. Officer: HQ/J T SUTTLES, HQ/A C JANETOS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAGW 4384 UNIVERSITY OF WYOMING **10159**
REMOTE SENSING OF PLANT STRESS IN XERIC ENVIRO- MENTS USING NARROW-BAND SENSORS
04/06/1995 – 01/31/1997 FY97: $0 Total: $75,000
Prin. Invest.: W K SMITH
Tech. Officer: HQ/A S MCGEE, HQ/E T SCHWARTZ
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAGW 4898 UNIVERSITY OF WYOMING **10160**
THE FIRST INTERNATIONAL CONFERENCE ON INFRARED INT INTERFER-OMETRY IN SPACE
01/29/1996 – 12/31/1996 FY97: $0 Total: $20,500
Prin. Invest.: H A THRONSON, NONE
Tech. Officer: HQ/L J CAROFF, HQ/M D BICAY
CASE Category: 11 – ASTRONOMY

NAS 1 18945 UNIVERSITY OF WYOMING **10161**
SAGE III SCIENCE INVESTIGATION SUPPORT P.I. - DR. GABOR VALI
01/17/1990 - 01/31/2005 FY97: $45,000 Total: $284,750
Prin. Invest.: G VALI
Tech. Officer: LARC/G L MADDREA, LARC/L R MCMASTER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 2 5236 UNIVERSITY OF WYOMING **10162**
PREDICTION OF PARTICLE NUMBER DENSITY AND PARTICLE PROPERTIS IN THE FLOW FIELD OBSERVED BYTHE NEPH
08/26/1997 - 08/31/1998 FY97: $15,930 Total: $15,930
Prin. Invest.: J W NAUGHTON*Prin. Invest.:* NONE
Tech. Officer: ARC/R E YOUNG
CASE Category: 31 - ATMOSPHERIC SCIENCE

NGT 30350 UNIVERSITY OF WYOMING **10163**
GLOBAL CHANGE FELLOWSHIP PROGRAM
08/16/1995 - 08/31/1996 FY97: $0 Total: $22,000
Prin. Invest.: J M ROSEN
Tech. Officer: HQ/R ASCHIFFER, HQ/G ASRAR
CASE Category: 31 - ATMOSPHERIC SCIENCE

NGT 40050 UNIVERSITY OF WYOMING **10164**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
07/24/1991 - 08/30/1997 FY97: $0 Total: $859,000
Prin. Invest.: P E JOHNSON
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 - MULTI INTERDISCPL, OTHER

NGT 51700 UNIVERSITY OF WYOMING **10165**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/22/1996 - 06/30/1997 FY97: $0 Total: $22,000
Prin. Invest.: J MC INORY
Tech. Officer: JPL/C HIX
CASE Category: 45 - ELECTRICAL ENGR

NGT 2 52218 UNIVERSITY OF WYOMING **10166**
IMPLEMENTATION OF NASA-AMES HI-FOGS AT WIRO
08/14/1996 - 05/31/1998 FY97: $18,500 Total: $36,500
Prin. Invest.: C E WOODWARD
Tech. Officer: ARC/J D BREGMAN, ARC/F C WITTEBORN
CASE Category: 11 - ASTRONOMY

NGT 5 40008 UNIVERSITY OF WYOMING **10167**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM
02/03/1997 - 02/28/1998 FY97: $170,000 Total: $170,000
Prin. Invest.: P E JOHNSON
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 - MULTI INTERDISCPL, OTHER

COMMONWEALTH OF PUERTO RICO

NAG13 29 UNIV OF PUERTO RICO-MED SCIENCES **10168**
LAND USE PATTERNS AND FECAL CONTAMINATION IN WESTERN PUERTO RICO
12/17/1993 - 03/31/1997 FY97: $0 Total: $225,447
Prin. Invest.: J NORAT
Tech. Officer: SSC/A JOYCE
CASE Category: 54 - ENVIRONMENTAL BIOLOGY

NAG 1 1496 UNIVERSITY OF PUERTO RICO - MAYAGUEZ **10169**
TECHNIQUES FOR THE ANALYSIS OF SYSTEMS WITH DAMPING MATERIALS BY THE FRACTIONAL DERIVATIVE
04/19/1993 - 12/31/1997 FY97: $0 Total: $149,258
Prin. Invest.: L SUAREZ
Tech. Officer: LARC/L G HORTA
CASE Category: 46 - MECHANICAL ENGR

NAG 3 1944 UNIVERSITY OF PUERTO RICO - MAYAGUEZ **10170**
LOW TEMPERATURE DESIGN OF A FULL-BRIDGE DC-DC CONV ERTER WITH SYNCHRONOUS RETIFICATION
08/09/1996 - 09/30/1997 FY97: $49,997 Total: $104,928
Prin. Invest.: B RAY
Tech. Officer: LERC/R L PATTERSON
CASE Category: 45 - ELECTRICAL ENGR

NAG 5 2909 UNIVERSITY OF PUERTO RICO - MAYAGUEZ **10171**
ESTIMATION OF OCEAN PRIMARY PRODUCTIVITY USING IN- SITU FLUORESCENCE AND SEAWIFS
03/10/1995 - 10/31/1997 FY97: $75,000 Total: $150,000
Prin. Invest.: J M LOPEZ
Tech. Officer: GSFC/W E ESAIAS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 3479 UNIVERSITY OF PUERTO RICO - MAYAGUEZ **10172**
USING CBL-TECHNOLOGY TO IMPROVE SCIENCE EDUCATION MASTAP PROJECT
11/22/1996 - 06/30/1997 FY97: $263,608 Total: $263,608
Prin. Invest.: B RAMIREZ
Tech. Officer: GSFC/M MATEU
CASE Category: 21 - MATHEMATICS

NAG 8 1085 UNIVERSITY OF PUERTO RICO - MAYAGUEZ **10173**
CRYSTAL STUDIES
09/15/1994 - 07/17/1997 FY97: $0 Total: $80,788
Prin. Invest.: A BARRIENTAS
Tech. Officer: MSFC/M V LASSE, MSFC/W J LOVE
CASE Category: 13 - PHYSICS

NAG 8 1344 UNIVERSITY OF PUERTO RICO - MAYAGUEZ **10174**
RESEARCH "ELECTROOPTICAL EFFECTS ON THIN ORGANIC FILMS OF 3-NITROANILINE & 2-CYCLO-OCTYLALMINO...."
04/24/1997 - 04/24/1998 FY97: $70,641 Total: $70,641
Prin. Invest.: A LYDERMAN, NONE
Tech. Officer: MSFC/B PENN
CASE Category: 13 - PHYSICS

NAG 8 1389 UNIVERSITY OF PUERTO RICO - MAYAGUEZ **10175**
RES:"THERMAL PROPERTIES OF MELT-GLASS TRANSITIONS OF ORGANIC COMPOUNDS FOR NONLINEAR OPTICAL APPLICA
07/09/1997 - 07/08/1998 FY97: $105,853 Total: $105,853
Prin. Invest.: A BARRIENTOS
Tech. Officer: MSFC/M VLASSE
CASE Category: 13 - PHYSICS

NAGW 3926 UNIVERSITY OF PUERTO RICO - MAYAGUEZ **10176**
EFFECTS OF MASSIVE RIVERINE INPUT
04/14/1994 - 04/01/1998 FY97: $0 Total: $431,800
Prin. Invest.: J E CORREDOR
Tech. Officer: HQ/A C JANETOS
CASE Category: 33 - OCEANOGRAPHY

NAGW 4614 UNIVERSITY OF PUERTO RICO – MAYAGUEZ **10177**
USING CBL TECHNOLOGY TO IMPROVE SCIENCE EDUCATION IN PUERTO RICO
07/20/1995 – 06/30/1998 FY97: $0 Total: $152,325
Prin. Invest.: B RAMINEZ
Tech. Officer: HQ/
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG10 159 UNIVERSITY OF PUERTO RICO – MAYAGUEZ **10178**
FRIT QUANTIFICATION OF INDUSTRIAL FLUIDS IN PERCHOROTHYLENE
06/08/1995 – 02/28/1997 FY97: $0 Total: $45,000
Prin. Invest.: N K MEHTA
Tech. Officer: KSC/G ALLEN
CASE Category: 43 – CHEMICAL ENGR

NAG13 17 UNIVERSITY OF PUERTO RICO – MAYAGUEZ **10179**
USE OF A GIS AND REMOTE SENSING TECHNOLOGY
12/13/1991 – 06/30/1996 FY97: $0 Total: $206,790
Prin. Invest.: L L RODRIGUEZ
Tech. Officer: SSC/A T JOYCE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG13 54 UNIVERSITY OF PUERTO RICO – MAYAGUEZ **10180**
ANALYSIS OF THE INHERENT AND APPARENT OPTICAL PROPERTIES
07/16/1997 – 07/15/1998 FY97: $99,945 Total: $99,945
Prin. Invest.: R A ARMSTRONG
Tech. Officer: JSC/R L MILLER
CASE Category: 33 – OCEANOGRAPHY

NCC 1 257 UNIVERSITY OF PUERTO RICO – MAYAGUEZ **10181**
MEASUREMENT OF NONLINEAR RECEPTIVITY TO SURFACE IRREGULARITIES
05/01/1997 – 04/30/1998 FY97: $23,369 Total: $23,369
Prin. Invest.: J B DAVILA–ACRON, M R HAJJ
Tech. Officer: LARC/R A KING
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 5 200 UNIVERSITY OF PUERTO RICO – MAYAGUEZ **10182**
PARTNERSHIP FOR SPACE TELECOMMUNICATIONS EDUCATION
06/17/1997 – 05/31/1998 FY97: $198,516 Total: $198,516
Prin. Invest.: R FERNANDEZ–SEIN
Tech. Officer: GSFC/M BUTLER
CASE Category: 45 – ELECTRICAL ENGR

NCC 5 215 UNIVERSITY OF PUERTO RICO – MAYAGUEZ **10183**
"TROPICAL ATMOSPHERIC SCIENCES CENTER"/ THE NASA/PUERTO RICO EPSCOR PROGRAM.
07/07/1997 – 06/30/1998 FY97: $500,000 Total: $500,000
Prin. Invest.: J G GONZALEZ
Tech. Officer: GSFC/L KEFFER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 8 37 UNIVERSITY OF PUERTO RICO – MAYAGUEZ **10184**
FABRICATION OF ORGANIC AND POLYMER GUIDING ORGANIC FILMS FROM MELT
05/24/1994 – 11/24/1997 FY97: $0 Total: $135,906
Prin. Invest.: A LEYDERMAN
Tech. Officer: MSFC/B PENN
CASE Category: 12 – CHEMISTRY

NCCW 88 UNIVERSITY OF PUERTO RICO – MAYAGUEZ **10185**
TROPICAL CENTER FOR EARTH AND SPACE STUDIES
07/24/1995 – 09/30/1997 FY97: $0 Total: $3,012,726
Prin. Invest.: R F SEIN
Tech. Officer: HQ/M MATEU
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 30272 UNIVERSITY OF PUERTO RICO – MAYAGUEZ **10186**
GLOBAL CHANGE FELLOWSHIPP AWARD
09/22/1994 – 08/31/1998 FY97: $0 Total: $66,000
Prin. Invest.: J CORREDOR
Tech. Officer: HQ/A C JANETOS, HQ/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 40053 UNIVERSITY OF PUERTO RICO – MAYAGUEZ **10187**
NGT–40053/UNIV PUERTO RICO/NATIONAL SPACE GRANT FELLOWSHIP PROGRAM
04/27/1992 – 09/30/1997 FY97: $0 Total: $751,000
Prin. Invest.: J G GONZALES
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 51340 UNIVERSITY OF PUERTO RICO – MAYAGUEZ **10188**
GRADUATE STUDENT RESEARCHERS PROGRAM
07/29/1994 – 06/30/1997 FY97: $0 Total: $44,000
Prin. Invest.: R E VASQUEZ
Tech. Officer: SSC/A JOYCE
CASE Category: 45 – ELECTRICAL ENGR

NGT 70311 UNIVERSITY OF PUERTO RICO – MAYAGUEZ **10189**
GRADUATE STUDENT RESEARCHERS PROGRAM
05/28/1993 – 05/31/1996 FY97: $0 Total: $44,000
Prin. Invest.: R VASQUEZ
Tech. Officer: HQ/D K RUSSELL
CASE Category: 33 – OCEANOGRAPHY

NGT 70319 UNIVERSITY OF PUERTO RICO – MAYAGUEZ **10190**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
06/29/1993 – 01/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: J M LOPEZ
Tech. Officer: HQ/D K RUSSELL
CASE Category: 33 – OCEANOGRAPHY

NGT 70322 UNIVERSITY OF PUERTO RICO – MAYAGUEZ **10191**
GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
06/29/1993 – 08/14/1996 FY97: –$3,482 Total: $66,000
Prin. Invest.: A LEYDERMAN
Tech. Officer: HQ/D K RUSSELL
CASE Category: 13 – PHYSICS

NGT 70392 UNIVERSITY OF PUERTO RICO – MAYAGUEZ **10192**
GRADUATE STUDENT RESEARCHERS PROGRAM
08/19/1994 – 05/31/1996 FY97: –$39,478 Total: $92,522
Prin. Invest.: A LEYDERMAN, J CORREDOR
Tech. Officer: HQ/D K RUSSELL
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NGT 1 52141 UNIVERSITY OF PUERTO RICO – MAYAGUEZ **10193**
GRADUATE STUDENT RESEARCHERS PROGRAM
06/25/1996 – 06/30/1997 FY97: –$22,000 Total: $0
Prin. Invest.: W RONDA
Tech. Officer: LARC/W B BALL
CASE Category: 45 – ELECTRICAL ENGR

NGT 5 40012 UNIVERSITY OF PUERTO RICO – MAYAGUEZ **10194**
TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
01/30/1997 – 02/28/1998 FY97: $150,000 Total: $150,000
Prin. Invest.: J G GONZALEZ*Prin. Invest.:* NONE
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT13 72700 UNIVERSITY OF PUERTO RICO – MAYAGUEZ **10195**
EFFECTS OF SEDIMENT INFLUX ON THE GROWTH RATE OF SEVERAL CORAL SPECIES ON THE SW COAST OF PUERTO RIC
06/28/1995 – 07/31/1997 FY97: $0 Total: $44,000
Prin. Invest.: J MORELOCK
Tech. Officer: SSC/D JOYCE
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 3473 UNIV OF PUERTO RICO HUMACAO UNIV COLLEGE **10196**
MATHEMATICS, SCIENCE AND TECHNOLOGY AWARDS FOR TEA ENHANCEMENT (MASTAP)
11/22/1996 – 06/30/1997 FY97: $355,482 Total: $355,482
Prin. Invest.: A M GIERBOLINI
Tech. Officer: GSFC/M MATEU
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 1003 UNIV OF PUERTO RICO HUMACAO UNIV COLLEGE **10197**
JOVE
01/25/1994 – 05/31/1998 FY97: $0 Total: $117,714
Prin. Invest.: C HERNANDEZ, F ZYPMAN
Tech. Officer: MSFC/F SIX
CASE Category: 13 – PHYSICS

NAGW 4619 UNIV OF PUERTO RICO HUMACAO UNIV COLLEGE **10198**
HUC–UPR MATHEMATICS, SCIENCE, AND TECHNOLOGY TEACH ER AND CURRICULUM ENHANCEMENT PROGRAM (MASTAP)
07/28/1995 – 06/30/1998 FY97: $0 Total: $173,313
Prin. Invest.: A M GIERBOLINI
Tech. Officer: HQ/B L WHITE
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NAG 8 260 UNIVERSITY OF PUERTO RICO–RIO PIEDRAS **10199**
JOVE
12/30/1992 – 06/30/1997 FY97: $0 Total: $127,000
Prin. Invest.: R LUGO–ESCHENWALD, E SOBRINO
Tech. Officer: MSFC/F SIX
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAGW 4059 UNIVERSITY OF PUERTO RICO–RIO PIEDRAS **10200**
LAND MANAGEMENT IN THE TROPICS AND ITS EFFECTS ON GLOBAL ENVIRONMENT
08/08/1994 – 08/14/1997 FY97: $0 Total: $1,800,000
Prin. Invest.: B R WEINER
Tech. Officer: HQ/B L WHITE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCCW 56 UNIVERSITY OF PUERTO RICO–RIO PIEDRAS **10201**
NASA EPSCOR PROGRAM
08/16/1994 – 09/30/1997 FY97: $0 Total: $1,500,000
Prin. Invest.: B WINNER, J G LAGOA
Tech. Officer: HQ/L KEFFER, HQ/E T SCHWARTZ
CASE Category: 99 – MULTI INTERDISCPL, OTHER

NGT 90157 UNIVERSITY OF TURABO **10202**
PRE ENGINEERING PREPARATORY PROGRAM
04/02/1993 – 12/31/1996 FY97: $0 Total: $624,671
Prin. Invest.: B MARREO
Tech. Officer: HQ/MTORRES
CASE Category: 49 – ENGINEERING, OTHER

NGT 5 90064 UNIVERSITY OF TURABO **10203**
ENGINEERING PREPARATORY PROJECT FOR HISPANIC HIGH
03/04/1997 – 02/28/1998 FY97: $194,684 Total: $194,684
Prin. Invest.: B A MARRERO
Tech. Officer: GSFC/M MATEU
CASE Category: 49 – ENGINEERING, OTHER

AUSTRALIA

NAG 1 1846 UNIVERSITY OF QUEENSLAND **10208**
STUDIES OF THE UNSTEADY EXPANSION IN EXPANSION TUBES
06/06/1996 – 12/31/1997 FY97: $22,001 Total: $37,001
Prin. Invest.: R G MORGAN, P A JACOBS
Tech. Officer: LARC/R C ROGERS, LARC/G Y ANDERSON
CASE Category: 41 – AERONAUTICAL ENGNR

CANADA

NAG 2 1040 MCGILL UNIVERSITY **10209**
CELLULAR DECOMPOSITION BASED HYBRID–HIERARCHICAL CONTROL SYSTEMS WITH APPLICATIONS TO FLIGHT
04/30/1996 – 02/28/1998 FY97: $24,768 Total: $49,536
Prin. Invest.: P E CAIN
Tech. Officer: ARC/G MEYER
CASE Category: 49 – ENGINEERING, OTHER

NAGW 3792 UNIVERSITY BRITISH COLUMBA **10210**
NUMERICAL SIMULATIONS OF VOLCANO AND GEYSER ERUPTI ONS ON EARTH, MARS, VENUS, IO AND TRITON
10/13/1993 – 09/30/1995 FY97: $0 Total: $57,000
Prin. Invest.: S W KIEFFER
Tech. Officer: HQ/J M BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4197 UNIVERSITY OF ALBERTA **10211**
A PROPOSAL TO MAKE AVAILABLE THE MAGNETOMETER DATA THE INTERNATIONAL MAGNETOSPHERIC STUDY (1976–1979
03/15/1997 – 03/14/1998 FY97: $9,800 Total: $9,800
Prin. Invest.: G ROSTOKER
Tech. Officer: GSFC/J WILLETT
CASE Category: 11 – ASTRONOMY

NAS 5 30294 YORK UNIVERSITY **10212**
HUBBLE SPACE TELESCOPE GUARANTEED TIME OBSERVATION PROGRAM SUPPORT
01/20/1988 – 03/31/1998 FY97: $43,000 Total: $896,188
Prin. Invest.: J J CALDWELL
Tech. Officer: GSFC/J K KALINOWSKI
CASE Category: 42 – ASTRONAUTICAL ENGR

CHILE

NAS 5 1925 UNIVERSITY OF CHILE **10213**
M&O OF MINITRACK FACILITIES IN CLILE
09/21/1962 – 09/30/1998 FY97: $60,000 Total: $96,237,119
Prin. Invest.: E DIAZ
Tech. Officer: GSFC/W J BODIN, GSFC/D SPINTMAN
CASE Category: 99 – MULTI INTERDISCPL, OTHER

GREAT BRITAIN

NAGW 2127 UNIVERSITY OF WALES **10214**
A MORE EFFICIENT FINITE ELEMENT ALGORITHM FOR HIGH SPEED COMPRESSIBLE FLOW
06/15/1990 – 04/25/1998 FY97: $50,000 Total: $559,400
Prin. Invest.: O C ZIENKIEWICZ
Tech. Officer: ARC/K K GUPTA, ARC/K L PETERSEN
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 1 222 UNIVERSITY OF WALES **10215**
PASCO2–AN UNIQUE COMPUTER PROGRAM FOR EXACT BUCK– ING AND VIBRATION DESIGN AND ANALYSIS OF ADVANCED
03/27/1996 – 01/31/1998 FY97: $25,000 Total: $55,000
Prin. Invest.: D W WILLIAMS
Tech. Officer: LARC/D H STARNES, LARC/M M MCGOWAN
CASE Category: 41 – AERONAUTICALENGNR

ISRAEL

NCC 2 965 ISRAEL INSTITUTE OF TECHNOLOGY **10216**
ADVANCED INTERACTIVE DISPLAY FORMATS FOR TERMINAL AIR TRAFFIC CONTROL
08/19/1996 – 06/30/1997 FY97: $0 Total: $24,970
Prin. Invest.: A J GRUNWALD
Tech. Officer: ARC/S R ELLIS
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 995 ISRAEL INSTITUTE OF TECHNOLOGY **10217**
A COGNITIVE GAME THEORETIC ANALYSIS OF CONFLICT ALERTS IN AIR TRAFFIC CONTROL
08/12/1997 – 10/31/1997 FY97: $20,000 Total: $20,000
Prin. Invest.: D GOPHER, I EREN
Tech. Officer: ARC/R W REMINGTON
CASE Category: 69 – PSYCHOLOGY, OTHER

NAG 3 2063 TEL–AVIV UNIVERSITY **10218**
SPECTRAL CONTENT OF SOLAR RADIATION ON MARTIAN SUR FACE
07/23/1997 – 06/30/1998 FY97: $22,000 Total: $22,000
Prin. Invest.: J APPLEBAUM
Tech. Officer: LERC/C R BARAONA, LERC/D BRINKER
CASE Category: 13 – PHYSICS

NAG 1 1823 WEIZMANN INSTITUTE OF SCIENCE **10219**
ADVANCED MULTIGRID SOLVERS FOR FLUID DYNAMICS
04/02/1996 – 10/31/1997 FY97: $34,000 Total: $68,000
Prin. Invest.: A BRANDT, J RUGE
Tech. Officer: LARC/J C SOUTH, JR., LARC/J L THOMAS
CASE Category: 21 – MATHEMATICS

NETHERLANDS

NAG 1 1826 DELFT UNIV OF TECHNOLOGY–NETHERLANDS **10220**
THE ROLE OF GEOMETRIC IMPERFECTIONS BY THE STABILITY ABALYSIS OF THINSHELLS
04/09/1996 – 11/30/1997 FY97: $10,001 Total: $29,001
Prin. Invest.: D ARBOCZ
Tech. Officer: LARC/D H STARNES, LARC/D P NEMETH
CASE Category: 41 – AERONAUTICAL ENGNR

NEW ZEALAND

NAGW 4127 UNIVERSITY OF WAIKATO **10221**
MODELING VISUAL, VESTIBULAR, AND OCULOMOTOR INTERA CTIONS IN SELF–MOTION – ESTIMATION
09/02/1994 – 10/31/1997 FY97: $0 Total: $43,498
Prin. Invest.: J A PERRONE
Tech. Officer: ARC/L S STONE
CASE Category: 59 – LIFE SCIENCE, OTHER

RUSSIA

NCC 1 238 ALL RUSSIAN SCIENCE RESEARCH INST VIAM **10204**
AN INVESTIGATION OF SHEET AND STRUCTURAL CONCEPTS FROM ALLOY 1441
08/23/1996 – 08/22/1997 FY97: $30,000 Total: $60,000
Prin. Invest.: J N FRIDLYANDER
Tech. Officer: LARC/R K BIRD, LARC/W B LISAGOR
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 1 246 ALL RUSSIAN SCIENCE RESEARCH INST VIAM **10205**
MODEL ESTIMATION OF PHOTOCHEMICAL TRANSFORMATION AND TRANSPORT OF SUB–AND SUPERSONIC AIRCRAFT
11/06/1996 – 03/01/1998 FY97: $39,780 Total: $39,780
Prin. Invest.: I L KAROL, NONE
Tech. Officer: LARC/W L GROSE, LARC/R S ECKMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 1 240 INST OF THEORETICAL AND APPLIED MECHANICS **10206**
SUPERSONIC LEADING EDGE RECEPTIVITY
07/31/1996 – 12/30/1997 FY97: $20,000 Total: $40,000
Prin. Invest.: A A MASLOV
Tech. Officer: LARC/D M BUSHNELL
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 3409 NOVOSIBIRSK STATE UNIVERSITY **10207**
INVESTIGATION OF GLOBAL INFLUENCE OF NITROGEN OXIDES AND SULFUR DIOXIDE EMMISSION
10/24/1996 – 02/26/1997 FY97: $8,500 Total: $8,500
Prin. Invest.: I G DEMINOV
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 – ATMOSPHERIC SCIENCE

WEST GERMANY

NAG 9 951 TECHNICAL UNIVERSITY OF MUNICH **10222**
ANALYSIS OF LUNAR BASE LIFE SUPPORT SYSTEMS WITH DIFFERENT CLOSURE LEVELS
07/21/1997 – 07/23/1998 FY97: $10,000 Total: $10,000
Prin. Invest.: P ECKART
Tech. Officer: JSC/K E HENDERSON, JSC/D L HENNINGER
CASE Category: 49 – ENGINEERING, OTHER

NAG 2 1155 UNIV STUTTGART **10223**
AMERICAN PHYSICAL SOCIETY MEETING FOR ALAN CELLIC
08/18/1997 – 11/30/1997 FY97: $1,860 Total: $1,860
Prin. Invest.: I S WAGNER
Tech. Officer: ARC/G ZILLIAC
CASE Category: 41 – AERONAUTICAL ENGNR

NASW 4685 UNIVERSITY OF KARLSRUBE **10224**
THERMOELECTRIC INFRARED DETECTORS
11/06/1992 – 11/14/1995 FY97: $0 Total: $488,790
Prin. Invest.: V KUNDE
Tech. Officer: HQ/HWRIGHT
CASE Category: 41 – AERONAUTICAL ENGNR

NASA'S UNIVERSITY PROGRAM
APPENDIX
CROSS INDEX BY FIELD OF SCIENCE AND ENGINEERING

The fields used here are specified by Amendment J, "Standard Classification of Fields of Science and Engineering," to Office of Management and Budget (OMB) Circular A-46, "Standards for Statistical Surveys." Field codes are interpreted as follows:

PHYSICAL SCIENCES
- **11 ASTRONOMY**
- **12 CHEMISTRY**
- **13 PHYSICS**
- **19 PHYSICAL SCIENCES, NEC***

MATHEMATICAL/ COMPUTER SCIENCE
- **21 MATHEMATICS**
- **22 COMPUTER SCIENCES**
- **29 MATHEMATICAL COMPUTER SCIENCES, NEC***

ENVIRONMENTAL SCIENCES (Terrestrial and extraterrestrial)
- **31 ATMOSPHERIC SCIENCES**
- **32 GEOLOGICAL SCIENCES**
- **33 OCEANOGRAPHY**
- **39 ENVIRONMENTAL SCIENCES, NEC***

ENGINEERING
- **41 AERONAUTICAL**
- **42 ASTRONAUTICAL**
- **43 CHEMICAL**
- **44 CIVIL**
- **45 ELECTRICAL**
- **46 MECHANICAL**
- **47 METALLURGY AND MATERIALS**
- **49 ENGINEERING, NEC***

LIFE SCIENCES
- **51 BIOLOGICAL SCIENCES**
- **54 ENVIRONMENTAL BIOLOGY**
- **55 AGRICULTURAL SCIENCES**
- **56 MEDICAL SCIENCES**
- **59 LIFE SCIENCES, NEC***

PSYCHOLOGY
- **61 BIOLOGICAL**
- **62 SOCIAL SCIENCES**
- **69 PSYCHOLOGY, NEC***

SOCIAL SCIENCES
- **71 ANTHROPOLOGY**
- **72 ECONOMICS**
- **73 HISTORY**
- **74 LINGUISTICS**
- **75 POLITICAL SCIENCE**
- **76 SOCIOLOGY**
- **79 SOCIAL SCIENCE, NEC***

*OTHER SCIENCES***
- **99 ALL DISCIPLINE(S)**

* Not elsewhere classified (For interdisciplinary projects and others not listed by discipline name)

** For interdisciplinary projects which cannot be classified within any of the preceding main fields

Abbreviations used in the *Technical Officer Location* column are discussed in the prefatory pages.

FIELD CODE	INSTITUTION	TECHNICAL OFFICER	TECH OFF LOC.	FIRST PRINCIPAL INVESTIGATOR	AGREEMENT NUMBER	PAGE NUM.
11	ARIZONA STATE UNIV	D K WEST	GSFC	M POLITANO	NAG 5 3892	23
11	ARIZONA STATE UNIV	D NAVA	GSFC	P R BUSECK	NAG 5 4308	23
11	ARIZONA STATE UNIV	D WEST	GSFC	A P COWLEY	NAG 5 3004	22
11	ARIZONA STATE UNIV	D WEST	GSFC	P H HAUSCHILDT	NAG 5 3067	22
11	ARIZONA STATE UNIV	D WEST	GSFC	P H HAUSCHILDT	NAG 5 3222	22
11	ARIZONA STATE UNIV	D WEST	GSFC	S G STARRFIELD	NAG 5 1802	22
11	ARIZONA STATE UNIV	G S KUTTER	HQ	S G STARRFIELD	NAGW 2628	24
11	ARIZONA STATE UNIV	J BOYCE	GSFC	D GREELEY	NAG 5 4232	23
11	ARIZONA STATE UNIV	J BOYCE	GSFC	D WYCKOFF	NAG 5 4280	23
11	ARIZONA STATE UNIV	J BOYCE	GSFC	P R BUSECK	NAG 5 6108	23
11	ARIZONA STATE UNIV	J M BOYCE	GSFC	D L GRAF	NAG 5 4439	23
11	ARIZONA STATE UNIV	J M BOYCE	GSFC	M S EDGETT	NAG 5 4296	23
11	ARIZONA STATE UNIV	J SWANK	GSFC	P SCHMIDTKE	NAG 5 3286	22
11	ARIZONA STATE UNIV	J TUELLER	GSFC	H BARBER	NAG 5 3894	23
11	ARIZONA STATE UNIV	L J CAROFF	HQ	L M ZIURYS	NAGW 2989	24
11	ARIZONA STATE UNIV	P ROGERS	HQ	S WYCKOFF	NAGW 4105	25
11	ARIZONA STATE UNIV	R PETRE	GSFC	A P CONWAY	NAG 5 2553	22
11	ARIZONA STATE UNIV	R WHITE	GSFC	D BURSTEIN	NAG 5 2832	22
11	ARIZONA STATE UNIV	T KOSTIUK	HQ	R GREELEY	NAGW 5094	25
11	AUGSBURG COLLEGE	F SIX	MSFC		NAG 8 1001	327
11	BARNARD COLLEGE	N WHITE	GSFC	L KAY	NAG 5 2937	369
11	BELOIT COLLEGE	S SOBIESKI	GSFC	D J SCHROEDER	NAG 5 1620	557
11	BOSTON UNIV	D HOLLAND	HQ	S CHAKRABARTI	NGT 51333	284
11	BOSTON UNIV	D K WEST	GSFC	A P MARSCHER	NAG 5 3839	281
11	BOSTON UNIV	D WEST	GSFC	D P CLEMENS	NAG 5 1997	280
11	BOSTON UNIV	D WEST	GSFC	D P CLEMENS	NAG 5 3337	280
11	BOSTON UNIV	D WEST	GSFC	J M JACKSON	NAG 5 2643	280
11	BOSTON UNIV	D WEST	GSFC	J R MATTOX	NAG 5 3384	281
11	BOSTON UNIV	H HASAN	GSFC	D CHAKRABARTI	NAG 5 3999	281
11	BOSTON UNIV	J BERGSTRALH	GSFC	D MENDILLO	NAG 5 4991	282
11	BOSTON UNIV	J P NORRIS	GSFC	A P MARSCHER	NAG 5 2508	280
11	BOSTON UNIV	J P NORRIS	GSFC	A P MARSCHER	NAG 5 3829	281
11	BOSTON UNIV	J P NORRIS	GSFC	J R MATTOX	NAG 5 3806	281
11	BOSTON UNIV	J SWANK	GSFC	A MARSCHER	NAG 5 3291	280

FIELD CODE	INSTITUTION	TECHNICAL OFFICER	TECH OFF LOC.	FIRST PRINCIPAL INVESTIGATOR	AGREEMENT NUMBER	PAGE NUM.
11	BOSTON UNIV	J SWANK	GSFC	A MARSCHER	NAG 5 4245	281
11	BOSTON UNIV	J SWANK	GSFC	J R MATTOX	NAG 5 3830	281
11	BOSTON UNIV	L J CAROFF	HQ	J M JACKSON	NAGW 4024	283
11	BOSTON UNIV	L QUAIFE	ARC	D P CLEMENS	NAG 2 1054	280
11	BOSTON UNIV	M FORMAN	GSFC	D CROOKER	NAG 5 4708	282
11	BOSTON UNIV	R HOFFMAN	GSFC	H SPENCE	NAS 5 97147	284
11	BOWIE STATE UNIV	D A WEIDOW	GSFC	P C CHI	NCC 5 145	249
11	BOWIE STATE UNIV	D MENCHAN	GSFC	J LANGDON	NAG 5 3546	249
11	BOWIE STATE UNIV	W CAMPBELL	GSFC	M MAREBOYANA	NAG 5 2829	249
11	BROWN UNIV	D G SICKOREZ	JSC	J W HEAD	NGT 9 8	466
11	BROWN UNIV	D NAVA	GSFC	D C HESS	NAG 5 4650	463
11	BROWN UNIV	D NAVA	GSFC	D M PIETERS	NAG 5 4303	463
11	BROWN UNIV	E CHENG	GSFC	P TIMBIE	NAG 5 2629	462
11	BROWN UNIV	G SOFFEN	GSFC	P TIMBIE	NGT 5 50001	465
11	BROWN UNIV	H C BRINTON	HQ	C PIETERS	NAGW 3756	464
11	BROWN UNIV	J BOYCE	GSFC	D HEAD	NAG 5 4231	463
11	BROWN UNIV	J BOYCE	GSFC	D W HEAD	NAG 5 4676	463
11	BROWN UNIV	J M BOYCE	GSFC	D J RUTHERFORD	NAG 5 4438	463
11	BROWN UNIV	J RAHE	HQ	G M SEIDEL	NAGW 4792	464
11	BROWN UNIV	J RAHE	HQ	J HEAD	NAGW 4418	464
11	CALIFORNIA INST OF TECH	C HICKS	JPL	B C MURRAY	NGT 51397	52
11	CALIFORNIA INST OF TECH	D A HOLLAND	HQ	A E LANGE	NAGW 4754	51
11	CALIFORNIA INST OF TECH	D F NAVA	GSFC	D EPSTEIN	NAG 5 4773	48
11	CALIFORNIA INST OF TECH	D HOLLAND	GSFC	A E LANGE	NAG 5 3465	45
11	CALIFORNIA INST OF TECH	D K WEST	GSFC	B T SOIFER	NAG 5 3560	45
11	CALIFORNIA INST OF TECH	D K WEST	GSFC	T KUNDIC	NAG 5 3834	46
11	CALIFORNIA INST OF TECH	D NAVA	GSFC	D M STOLPER	NAG 5 4318	47
11	CALIFORNIA INST OF TECH	D NAVA	GSFC	D M STOLPER	NAG 5 4715	48
11	CALIFORNIA INST OF TECH	D NAVA	GSFC	D S BURNETT	NAG 5 4307	47
11	CALIFORNIA INST OF TECH	D NAVA	GSFC	D S BURNETT	NAG 5 4319	47
11	CALIFORNIA INST OF TECH	D WEST	GSFC	E S PHINNEY	NAG 5 2756	44
11	CALIFORNIA INST OF TECH	D WEST	GSFC	L ARMUS	NAG 5 2657	44
11	CALIFORNIA INST OF TECH	D WEST	GSFC	S KULKARNI	NAG 5 3330	45
11	CALIFORNIA INST OF TECH	D WEST	GSFC	S R KULKARNI	NAG 5 2655	44
11	CALIFORNIA INST OF TECH	D WEST	GSFC	T A PRINCE	NAS 5 32642	51
11	CALIFORNIA INST OF TECH	D WEST	GSFC	T A PRINCE	NAG 5 3239	45
11	CALIFORNIA INST OF TECH	E F ERICKSON	ARC	J ZMUIDZINAS	NAG 2 1038	43
11	CALIFORNIA INST OF TECH	F C GILLETT	HQ	T G PHILLIPS	NAGW 107	48
11	CALIFORNIA INST OF TECH	G R RIEGLER	HQ	S KULKARNI	NAGW 3253	50
11	CALIFORNIA INST OF TECH	G S LEVY	HQ	A I SARGENT	NAGW 1478	49
11	CALIFORNIA INST OF TECH	H BRINTON	HQ	K FARLEY	NAGW 5096	51
11	CALIFORNIA INST OF TECH	H HASAN	GSFC	D S THORNE	NAG 5 4351	47
11	CALIFORNIA INST OF TECH	H HASAN	GSFC	P A BLAKE	NAG 5 4097	46
11	CALIFORNIA INST OF TECH	H HASAN	GSFC	P LINDBLOM	NAG 5 4093	46
11	CALIFORNIA INST OF TECH	H NEEDLEMAN	GSFC	J GRINDLEY	NAG 5 5128	48
11	CALIFORNIA INST OF TECH	H THRONSON	GSFC	D S ZMUIDZINAS	NAG 5 4890	48
11	CALIFORNIA INST OF TECH	H THRONSON	GSFC	D SERABYN	NAG 5 4196	46
11	CALIFORNIA INST OF TECH	H THRONSON	GSFC	P A BLAKE	NAG 5 4692	48
11	CALIFORNIA INST OF TECH	H THRONSON	GSFC	P E LANGE	NAG 5 4079	46
11	CALIFORNIA INST OF TECH	H THRONSON	GSFC	P E LANGE	NAG 5 4081	46
11	CALIFORNIA INST OF TECH	J BERGSTRALH	GSFC	D O MUHLEMAN	NAG 5 3792	46
11	CALIFORNIA INST OF TECH	J BERGSTRALH	GSFC	D YUNG	NAG 5 4657	47
11	CALIFORNIA INST OF TECH	J BOYCE	GSFC	D C MURRAY	NAG 5 4611	47
11	CALIFORNIA INST OF TECH	J BOYCE	GSFC	D I SARGENT	NAG 5 4599	47
11	CALIFORNIA INST OF TECH	J BOYCE	GSFC	D R ULKARNI	NAG 5 4378	47
11	CALIFORNIA INST OF TECH	J BOYCE	GSFC	J L KIRSCHVINK	NAG 5 6225	48
11	CALIFORNIA INST OF TECH	J BOYCE	GSFC	P A BLAKE	NAG 5 4383	47
11	CALIFORNIA INST OF TECH	J H RAHE	HQ	D O MUHLEMAN	NAGW 1499	49
11	CALIFORNIA INST OF TECH	J H RAHE	HQ	E STONE	NCCW 62	52
11	CALIFORNIA INST OF TECH	J M BOYCE	GSFC	D C MURRAY	NAG 5 4347	47
11	CALIFORNIA INST OF TECH	J P NORRIS	GSFC	H ZIRIN	NAG 5 2090	44
11	CALIFORNIA INST OF TECH	J P NORRIS	GSFC	H ZURIN	NAG 5 2761	44
11	CALIFORNIA INST OF TECH	J P NORRIS	GSFC	R BLANDFORD	NAG 5 2504	44
11	CALIFORNIA INST OF TECH	J P NORRIS	GSFC	R C LAMB	NAG 5 3299	45
11	CALIFORNIA INST OF TECH	J P NORRIS	GSFC	R C LAMB	NAG 5 3821	46
11	CALIFORNIA INST OF TECH	J P NORRIS	GSFC	R W NELSON	NAG 5 3119	45

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11	CALIFORNIA INST OF TECH	J P NORRIS	GSFC	V M KASPI	NAG 5 3178	45
11	CALIFORNIA INST OF TECH	J RAHE	HQ	D MUHLEMAN	NAGW 4562	51
11	CALIFORNIA INST OF TECH	J SWANK	GSFC	B A VAUGHAN	NAG 5 4627	47
11	CALIFORNIA INST OF TECH	J SWANK	GSFC	B VAUGHAN	NAG 5 3340	45
11	CALIFORNIA INST OF TECH	J SWANK	GSFC	F HARRISON	NAG 5 3296	45
11	CALIFORNIA INST OF TECH	J T BERGSTRALH	HQ	A P INGERSOLL	NAGW 1956	49
11	CALIFORNIA INST OF TECH	J T BERGSTRALH	HQ	Y L YUNG	NAGW 1509	49
11	CALIFORNIA INST OF TECH	L J CAROFF	HQ	A E LANGE	NAGW 4623	51
11	CALIFORNIA INST OF TECH	L J CAROFF	HQ	A E LANGE	NAGW 4870	51
11	CALIFORNIA INST OF TECH	L J CAROFF	HQ	G A BLAKE	NAGW 2813	49
11	CALIFORNIA INST OF TECH	L QUAIFE	ARC	J ZMUIDZINAS	NAG 2 744	43
11	CALIFORNIA INST OF TECH	L QUAIFE	ARC	J ZMUIDZINAS	NAG 2 1068	43
11	CALIFORNIA INST OF TECH	N P NORRIS	GSFC	T A PRINCE	NAG 5 3924	46
11	CALIFORNIA INST OF TECH	N WHITE	GSFC	B R KULKARNI	NAG 5 2519	44
11	CALIFORNIA INST OF TECH	N WHITE	GSFC	L BILDSTEN	NAG 5 2768	44
11	CALIFORNIA INST OF TECH	P ROGERS	HQ	A SARGENT	NAGW 4030	50
11	CALIFORNIA INST OF TECH	P ROGERS	HQ	J E CARLSTROM	NAGW 4193	50
11	CALIFORNIA INST OF TECH	R H PLESS	GSFC	C MARTIN	NAG 5 5052	48
11	CALIFORNIA INST OF TECH	R PETRE	GSFC	A LANGE	NAG 5 3207	45
11	CALIFORNIA INST OF TECH	R PETRE	GSFC	F HARRISON	NAG 5 2956	45
11	CALIFORNIA INST OF TECH	R PETRE	GSFC	I N REID	NAG 5 1985	44
11	CALIFORNIA INST OF TECH	R PETRE	GSFC	L BILDSTEN	NAG 5 2929	45
11	CALIFORNIA INST OF TECH	R PETRE	GSFC	S R KULKARNI	NAG 5 6071	48
11	CALIFORNIA INST OF TECH	R PETRE	GSFC	W L SARGENT	NAG 5 1707	44
11	CALIFORNIA INST OF TECH	R V STACHNIK	HQ	K S THORNE	NAGW 4268	50
11	CALIFORNIA INST OF TECH	S SOBIESKI	GSFC	J A WESTPHAL	NAG 5 1611	44
11	CALIFORNIA INST OF TECH	T KOSTIUK	HQ	D S BURNETT	NAGW 4182	50
11	CALIFORNIA INST OF TECH	W HUEBNER	GSFC	D SERABYN	NAG 5 4200	47
11	CALIFORNIA INST OF TECH	W J WAGNER	GSFC	D E GARY	NAG 5 3882	46
11	CALIFORNIA INST OF TECH	W J WAGNER	GSFC	D G LIBBRECHT	NAG 5 6173	48
11	CALIFORNIA INST OF TECH	W V JONES	HQ	E C STONE	NAGW 1919	49
11	CALIFORNIA STATE UNIV - FULLERTON	H HASAN	GSFC	D KHAKOO	NAG 5 3787	54
11	CALIFORNIA STATE UNIV - FULLERTON	J BOYCE	GSFC	D WOOLUM	NAG 5 4945	54
11	CALIFORNIA STATE UNIV - FULLERTON	T P STECHER	GSFC	P CHENG	NAG 5 4113	54
11	CALIFORNIA STATE UNIV - LOS ANGELES	B L WHITE	HQ	H BOUSSALIS	NAGW 4103	55
11	CALIFORNIA STATE UNIV - NORTHRIDGE	D WEST	GSFC	K CHENG	NAG 5 2994	56
11	CALIFORNIA STATE UNIV - NORTHRIDGE	R OLIVERSEN	GSFC	K CHENG	NAG 5 2744	56
11	CALIFORNIA STATE UNIV - NORTHRIDGE	W J WAGNER	GSFC	G A CHAPMAN	NAG 5 4973	56
11	CALIFORNIA STATE UNIV - NORTHRIDGE	W J WAGNER	HQ	G A CHAPMAN	NAGW 3017	56
11	CAPITOL COLLEGE	D MENCHAN	GSFC	J JARRELL	NAG 5 3456	250
11	CARNEGIE - MELLON UNIV	D LAVERY	GSFC	T KANADE	NCC 5 223	445
11	CARNEGIE - MELLON UNIV	L KALUZIENSKI	GSFC	D GRIFFITHS	NAG 5 3651	444
11	CARNEGIE - MELLON UNIV	N WHITE	GSFC	R E GRIFFITHS	NAG 5 6075	444
11	CHARLES COUNTY COMM COLLEGE	J NUTH	GSFC	G KRAUSE	NCC 5 69	250
11	CITADEL MILITARY COLLEGE OF S C	R V STACHNIK	HQ	S J ADELMAN	NAGW 4829	467
11	CLAREMONT MCKENNA COLLEGE	J P NORRIS	GSFC	J C HIGDON	NAG 5 2010	56
11	CLAREMONT MCKENNA COLLEGE	J P NORRIS	GSFC	J C HIGDON	NAG 5 3694	56
11	CLAREMONT MCKENNA COLLEGE	J P NORRIS	GSFC	V C WANG	NAG 5 3154	56
11	CLAREMONT MCKENNA COLLEGE	J P NORRIS	GSFC	V WANG	NAG 5 3519	56
11	CLARK ATLANTA UNIV	J BERGSTRALH	HQ	S TAYAL	NAGW 4447	185
11	CLEMSON UNIV - CLEMSON	D F NAVA	GSFC	D S MEYER	NAG 5 4703	468
11	CLEMSON UNIV - CLEMSON	D WEST	GSFC	M LEISING	NAG 5 2419	467
11	CLEMSON UNIV - CLEMSON	J BOYCE	GSFC	P D CLAYTON	NAG 5 4340	468
11	CLEMSON UNIV - CLEMSON	J P NORRIS	GSFC	D H HARTMANN	NAG 5 1578	467
11	CLEMSON UNIV - CLEMSON	J P NORRIS	GSFC	F X TIMMES	NAG 5 3094	467
11	CLEMSON UNIV - CLEMSON	J P NORRIS	GSFC	M D LEISING	NAG 5 3699	467
11	CLEMSON UNIV - CLEMSON	J SWANK	GSFC	L THE	NAG 5 4624	468
11	COLUMBIA UNIV	D K WEST	GSFC	A P CROTTS	NAG 5 3502	374
11	COLUMBIA UNIV	D K WEST	GSFC	K CHEN	NAG 5 3843	375
11	COLUMBIA UNIV	D K WEST	GSFC	S KAHN	NAG 5 3622	374
11	COLUMBIA UNIV	D NAVA	GSFC	D LONGHI	NAG 5 4558	375
11	COLUMBIA UNIV	D NAVA	GSFC	D LONGHI	NAG 5 4649	375
11	COLUMBIA UNIV	D RENEL	GSFC	M CANE	NAG 5 4058	375
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11	COLUMBIA UNIV	D WEST	GSFC	J APPLEGATE	NAG 5 2859	373

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11	COLUMBIA UNIV	D WEST	GSFC	M P KAMIONKOWSKI	NAG 5 3091	373
11	COLUMBIA UNIV	D WEST	GSFC	M RUDERMAN	NAG 5 2841	373
11	COLUMBIA UNIV	D WEST	GSFC	S M KAHN	NAG 5 3541	374
11	COLUMBIA UNIV	DA HOLLAND	HQ	C J HAILEY	NAGW 4818	377
11	COLUMBIA UNIV	F C OWENS	HQ	C MARTIN	NGT 50777	379
11	COLUMBIA UNIV	G R RIEGLER	HQ	J HALPERN	NAGW 4482	377
11	COLUMBIA UNIV	G S KUTTER	HQ	D J HELFAND	NAGW 2507	377
11	COLUMBIA UNIV	G S KUTTER	HQ	J O PATTERSON	NAGW 2565	377
11	COLUMBIA UNIV	G S KUTTER	HQ	R M RICH	NAGW 2479	377
11	COLUMBIA UNIV	H V FREY	GSFC	F B PAERELS	NAG 5 2991	373
11	COLUMBIA UNIV	J NORRIS	GSFC	P KAARET	NAG 5 2235	372
11	COLUMBIA UNIV	J P NORRIE	GSFC	E APRILE	NAG 5 2872	373
11	COLUMBIA UNIV	J P NORRIS	GSFC	D J HELFAND	NAG 5 2861	373
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11	COLUMBIA UNIV	J P NORRIS	GSFC	M TAVANI	NAG 5 3798	374
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11	COLUMBIA UNIV	L J KALUZIENSKI	HQ	C HAILEY	NAGW 4734	377
11	COLUMBIA UNIV	L J KALUZIENSKI	HQ	E APRILE	NAGW 2013	376
11	COLUMBIA UNIV	N P NORRIS	GSFC	M TAVANI	NAG 5 3838	374
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11	COLUMBIA UNIV	N WHITE	GSFC	M TAVANI	NAG 5 6232	376
11	COLUMBIA UNIV	N WHITE	GSFC	TAVANI	NAG 5 2730	373
11	COLUMBIA UNIV	NWHITE	GSFC	J PATTERSON	NAG 5 3329	374
11	COLUMBIA UNIV	R OLIVERSEN	GSFC	J P HALPERN	NAG 5 2569	373
11	COLUMBIA UNIV	R PETRE	GSFC	C J HAILEY	NAG 5 4759	376
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11	COLUMBIA UNIV	WEST	GSFC	A P CROTTA	NAG 5 3319	374
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11	CORNELL UNIV	C R MCCREIGHT	ARC	T L HERTER	NAG 2 1145	380
11	CORNELL UNIV	D HOLLAND	HQ	C E SAGAN	NGT 51329	387
11	CORNELL UNIV	D HOLLAND	HQ	P NICHOLSON	NGT 51649	387
11	CORNELL UNIV	D K WEST	GSFC	T J LOREDO	NAG 5 3427	382
11	CORNELL UNIV	D NAVA	GSFC	D O POHL	NAG 5 4677	383
11	CORNELL UNIV	D WEST	GSFC	D F CHERNOFF	NAG 5 2851	381
11	CORNELL UNIV	D WEST	GSFC	G J HARWIT	NAG 5 3347	381
11	CORNELL UNIV	D WEST	GSFC	I M WASSERMAN	NAG 5 3097	381
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11	CORNELL UNIV	E BAKER	HQ	S SQUYRES	NAGW 4655	386
11	CORNELL UNIV	E BARKER	HQ	J F BELL	NAGW 5117	386
11	CORNELL UNIV	E F ERICKSON	ARC	G J STACEY	NAG 2 1034	380
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11	CORNELL UNIV	H THRONSON	GSFC	D J STACEY	NAG 5 4503	383
11	CORNELL UNIV	H THRONSON	GSFC	D R HOUCK	NAG 5 4376	383
11	CORNELL UNIV	J BERGSTRALH	GSFC	D J GIERABCH	NAG 5 3862	382
11	CORNELL UNIV	J BERGSTRALH	GSFC	D SQUYRES	NAG 5 4221	382
11	CORNELL UNIV	J BERGSTRALH	GSFC	D VEVERKA	NAG 5 4721	383
11	CORNELL UNIV	J BOYCE	GSFC	D W SQUYRES	NAG 5 4673	383
11	CORNELL UNIV	J H RAHE	HQ	J VEVERKA	NAGW 3837	385
11	CORNELL UNIV	J N CUZZI	ARC	P D NICHOLSON	NAG 2 1030	380
11	CORNELL UNIV	J P NORRIS	GSFC	I M WASSERMAN	NAG 5 2762	381
11	CORNELL UNIV	J P NORRIS	GSFC	I M WASSERMAN	NAG 5 3800	382
11	CORNELL UNIV	J P NORRIS	GSFC	J M CORDES	NAG 5 2436	381
11	CORNELL UNIV	J P NORRIS	GSFC	J M CORDES	NAG 5 3515	382
11	CORNELL UNIV	J SWANK	GSFC	J CORDES	NAG 5 3302	381
11	CORNELL UNIV	J T BERGSTRALH	HQ	P GIERASCH	NAGW 1997	384
11	CORNELL UNIV	L J CAROFF	HQ	A J SIEVERS	NAGW 2768	385
11	CORNELL UNIV	L J CAROFF	HQ	G STACEY	NAGW 3925	385
11	CORNELL UNIV	L QUAIFE	ARC	G J STACEY	NAG 2 1066	380
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11	CORNELL UNIV	L QUAIFE	ARC	T L HERTER	NAG 2 1071	380
11	CORNELL UNIV	M BOYCE	GSFC	D W SQUYRES	NAG 5 4229	382
11	CORNELL UNIV	M D BICAY	HQ	J R HOUCK	NAGW 2551	385
11	CORNELL UNIV	M FLASAR	GSFC	P J GIERASCH	NCC 5 132	386
11	CYPRESS COLLEGE	F SIX	MSFC	J CATANZARITE	NAG 8 998	57
11	DARTMOUTH COLLEGE	A NURRIDDIN	HQ	LABELLE	NGT 5 50093	350
11	DARTMOUTH COLLEGE	H HASAN	GSFC	D GLEISER	NAG 5 4094	349
11	DARTMOUTH COLLEGE	M A FORMAN	GSFC	D G LYON	NAG 5 4606	349
11	DARTMOUTH COLLEGE	R PETRE	GSFC	J THORSTENSEN	NAG 5 3212	348
11	DARTMOUTH COLLEGE	R V STACHNIK	HQ	M GLEISER	NAGW 4270	349
11	DELAWARE STATE COLLEGE	C R CHAPPELL	MSFC	P DIMARIC	NAG 8 248	156
11	DENISON UNIV	J T BERGSTRALH	HQ	M E MICKELSON	NAGW 1765	422
11	DRAKE UNIV	D WEST	GSFC	A O MARSTON	NAG 5 2999	230
11	DREXEL UNIV	D P HUENEMOERDER	HQ	S L MCMILLAN	NAGW 2559	446
11	ECKERD COLLEGE	M H MOORE	GSFC	R L HUDSON	NAG 5 1843	165
11	FISK UNIV	J BIBRO	MSFC	H T CAULFRED	NAG 8 1402	473
11	FLA INTERNATIONAL UNIV	F SIX	MSFC	N MUNROE	NAG 8 283	166
11	FLA INTERNATIONAL UNIV	J P NORRIS	GSFC	J R WEBB	NAG 5 3662	166
11	FLA INTERNATIONAL UNIV	R HARTLE	GSFC	K HARDY	NAG 5 3826	166
11	FLORIDA ATLANTIC UNIV	D K WEST	GSFC	S W BRUENN	NAG 5 3903	169
11	FLORIDA INST OF TECH	D WEST	GSFC	M A WOOD	NAG 5 3103	170
11	FLORIDA INST OF TECH	T SCOTT	GSFC	C HELMSTETTER	NAG 5 3886	170
11	FRANKLIN-MARSHALL COLLEGE	D WEST	GSFC	D E BACKMAN	NAG 5 3365	447
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11	GEORGE MASON UNIV	J P NORRIS	GSFC	L OZERNOY	NAG 5 3139	522
11	GEORGE MASON UNIV	J P NORRIS	GSFC	L TITARCHUK	NAG 5 3090	522
11	GEORGE MASON UNIV	J P NORRIS	GSFC	M KAFATOS	NAG 5 2025	522
11	GEORGE MASON UNIV	J P NORRIS	GSFC	M KAFATOS	NAG 5 2894	522
11	GEORGE MASON UNIV	J P NORRIS	GSFC	M KAFATOS	NAG 5 3898	523
11	GEORGE MASON UNIV	J P NORRIS	GSFC	R J NEMIROFF	NAG 5 2710	522
11	GEORGE MASON UNIV	J SWANK	GSFC	L TITARCHUK	NAG 5 3240	522
11	GEORGE MASON UNIV	J SWANK	GSFC	L TITARCHUK	NAG 5 4965	523
11	GEORGE MASON UNIV	L J KALUZIRNSKI	HQ	D F CIOFFI	NAGW 4962	523
11	GEORGE MASON UNIV	N WHITE	GSFC	L TITARCHUK	NAG 5 3408	523
11	GEORGE MASON UNIV	P CHAN	GSFC	M KAFATOS	NCC 5 143	523
11	GEORGE MASON UNIV	R J OLIVERSEN	GSFC	M KAFATOS	NAG 5 3701	523
11	GEORGE MASON UNIV	R OLIVERSEN	GSFC	M KAFATOS	NAG 5 2360	522
11	GEORGE MASON UNIV	R SHAFER	GSFC	M KAFATOS	NAG 5 3387	523
11	GEORGE WASHINGTON UNIV	P E O'NEILL	GSFC	R H LANG	NAG 5 3150	158
11	GEORGIA STATE UNIV	D WEST	GSFC	D R GIES	NAG 5 2979	194
11	GEORGIA STATE UNIV	D WEST	GSFC	P J WILTA	NAG 5 3098	194
11	GEORGIA STATE UNIV	H HASAN	GSFC	D T MANSON	NAG 5 4091	194
11	GEORGIA STATE UNIV	H THRONSON	GSFC	D PERERA	NAG 5 4950	194
11	GEORGIA STATE UNIV	J P NORRIS	GSFC	H MILLER	NAG 5 3587	194

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11	GEORGIA STATE UNIV	R V STACHNIK	HQ	S T MANSON	NAGW 4280	194
11	GRAMBLING STATE UNIV	B PENN	MSFC	C WALTON	NAG 8 1392	242
11	HAMPDEN-SYDNEY COLLEGE	C E FICHTEL	GSFC	D A KNIFFEN	NCC 5 93	523
11	HARVARD UNIV	D A HOLLAND	HQ	M NAHUM	NAGW 4781	289
11	HARVARD UNIV	D F NAVA	GSFC	D CAMERON	NAG 5 4690	287
11	HARVARD UNIV	D HOLLAND	GSFC	M NAHUM	NAG 5 3709	286
11	HARVARD UNIV	D HOLLAND	HQ	J GRINDLAY	NGT 51694	290
11	HARVARD UNIV	D K WEST	GSFC	A GOODMAN	NAG 5 3564	286
11	HARVARD UNIV	D K WEST	GSFC	C S KOCHANEK	NAG 5 4062	287
11	HARVARD UNIV	D K WEST	GSFC	M S ELVIS	NAG 5 3695	286
11	HARVARD UNIV	D NAVA	GSFC	D B JACOBSEN	NAG 5 4720	287
11	HARVARD UNIV	D NAVA	GSFC	D FRANKLIN	NAG 5 4302	287
11	HARVARD UNIV	D NAVA	GSFC	D G AGEE	NAG 5 4713	287
11	HARVARD UNIV	D NAVA	GSFC	D X LUU	NAG 5 4132	287
11	HARVARD UNIV	D RIND	GSFC	D JACOB	NAG 5 3553	286
11	HARVARD UNIV	D WEST	GSFC	A LOEB	NAG 5 3085	286
11	HARVARD UNIV	D WEST	GSFC	J GRINDLAY	NAG 5 3256	286
11	HARVARD UNIV	D WEST	GSFC	W H PARKINSON	NAG 5 3020	286
11	HARVARD UNIV	E BARKER	HQ	J LUU	NAGW 4819	289
11	HARVARD UNIV	G R RIEGLER	HQ	J GRINDLAY	NAGW 3280	288
11	HARVARD UNIV	H HASAN	GSFC	W H PARKINSON	NAG 5 4348	287
11	HARVARD UNIV	H THRONSON	GSFC	P NAHUM	NAG 5 4522	287
11	HARVARD UNIV	J BERGSTRALH	GSFC	D X LUU	NAG 5 4216	287
11	HARVARD UNIV	J BOYCE	GSFC	D B JACOBSEN	NAG 5 4430	287
11	HARVARD UNIV	J BOYCE	GSFC	D G CAMERON	NAG 5 4601	287
11	HARVARD UNIV	J LYNCH	HQ	R KIRSHNER	NGT 51081	290
11	HARVARD UNIV	J NORRIS	GSFC	R NARAYAN	NAG 5 1904	285
11	HARVARD UNIV	J P NORRIS	GSFC	J E GRINDLAY	NAG 5 2763	286
11	HARVARD UNIV	J P NORRIS	GSFC	J E GRINDLAY	NAG 5 3808	286
11	HARVARD UNIV	J P NORRIS	GSFC	J E GRINDLAY	NAG 5 3890	286
11	HARVARD UNIV	J P NORRIS	GSFC	R NARAYAN	NAG 5 3516	286
11	HARVARD UNIV	J SWANK	GSFC	J E GRINDLAY	NAG 5 4053	287
11	HARVARD UNIV	J SWANK	GSFC	J GRINDLAY	NAG 5 3298	286
11	HARVARD UNIV	J VARGAS	MSFC	J E TRINDLEY	NAG 8 1034	287
11	HARVARD UNIV	L J KALUZIENSKI	HQ	J GRINDLAY	NAGW 624	288
11	HARVARD UNIV	L J KALUZIENSKI	HQ	M NAHUM	NAGW 4170	288
11	HARVARD UNIV	M MOORE	ARC	R KIRSHNER	NGT 51312	290
11	HARVARD UNIV	P G ROGERS	HQ	J LUU	NAGW 4412	288
11	HARVARD UNIV	R PETRE	GSFC	J E GRINDLAY	NAG 5 1624	285
11	HARVEY MUDD COLLEGE	D WEST	GSFC	A RUDOLPH	NAG 5 3406	57
11	HARVEY MUDD COLLEGE	L QUAIFE	ARC	A RUDOLPH	NAG 2 960	57
11	HAVERFORD COLLEGE	D WEST	GSFC	S P BOUGHN	NAG 5 3015	447
11	HOWARD UNIV	M DIPIRRO	GSFC	A N THORPE	NAG 5 3141	161
11	IDAHO STATE UNIV	F SIX	MSFC	S JOHNSON	NAG 8 269	205
11	INDIANA UNIV - BLOOMINGTON	B G BILLS	GSFC	M W HAMBURGER	NAG 5 1941	223
11	INDIANA UNIV - BLOOMINGTON	D NAVA	GSFC	D BASU	NAG 5 4618	224
11	INDIANA UNIV - BLOOMINGTON	D WEST	GSFC	H N COHN	NAG 5 2781	223
11	INDIANA UNIV - BLOOMINGTON	J BOYCE	GSFC	D H DURISEN	NAG 5 4295	224
11	INDIANA UNIV - BLOOMINGTON	J SWANK	GSFC	R K HONEYCUTT	NAG 5 3283	223
11	INDIANA UNIV - BLOOMINGTON	J SWANK	GSFC	T STEIMAN-CAMERON	NAG 5 4409	224
11	INDIANA UNIV - BLOOMINGTON	L J KALUZIENSKI	HQ	D FRIESEL	NAGW 3718	224
11	INDIANA UNIV - BLOOMINGTON	R PETRE	GSFC	R HONEYCUTT	NAG 5 3413	223
11	INDIANA UNIV - SOUTH BEND	D WEST	GSFC	S N SHORE	NAG 5 2612	225
11	IONA COLLEGE	J F DOWDY	MSFC	R NOVAK	NAG 8 1273	388
11	IOWA STATE UNIV	D K WEST	GSFC	S D KAWALER	NAG 5 4060	231
11	IOWA STATE UNIV	D WEST	GSFC	L A WILLIAM	NAG 5 2830	231
11	IOWA STATE UNIV	D WEST	GSFC	P N APPLETON	NAG 5 3317	231
11	IOWA STATE UNIV	J A PEDELTY	GSFC	P N APPLETON	NAG 5 2286	231
11	IOWA STATE UNIV	J P NORRIS	GSFC	D CARTER-LEWIS	NAG 5 3819	231
11	IOWA STATE UNIV	J P NORRIS	GSFC	R C LAMB	NAG 5 2047	231
11	IOWA STATE UNIV	J P NORRIS	GSFC	R C LAMB	NAG 5 3137	231
11	IOWA STATE UNIV	S COHN	GSFC	T C CHEN	NAG 5 2930	231
11	JOHNS HOPKINS UNIV	D B MOTT	GSFC	K R SEMBACH	NAG 5 3485	252
11	JOHNS HOPKINS UNIV	D E NEW	HQ	T HECKMAN	NAGW 4025	256

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11	JOHNS HOPKINS UNIV	D K WEST	GSFC	A S SZALAY	NAG 5 3503	252
11	JOHNS HOPKINS UNIV	D K WEST	GSFC	B R ESPEY	NAG 5 3704	253
11	JOHNS HOPKINS UNIV	D K WEST	GSFC	C A NORMAN	NAG 5 3537	253
11	JOHNS HOPKINS UNIV	D K WEST	GSFC	J H KROLIK	NAG 5 3929	253
11	JOHNS HOPKINS UNIV	D K WEST	GSFC	K A WEAVER	NAG 5 3504	253
11	JOHNS HOPKINS UNIV	D K WEST	GSFC	R F WYSE	NAG 5 3928	253
11	JOHNS HOPKINS UNIV	D K WEST	GSFC	T HECKMEN	NAG 5 3375	252
11	JOHNS HOPKINS UNIV	D R MENGERS	GSFC	H W MOOS	NAS 5 32985	258
11	JOHNS HOPKINS UNIV	D WEST	GSFC	D A NEUFELD	NAG 5 3316	252
11	JOHNS HOPKINS UNIV	D WEST	GSFC	D A NEUFELD	NAG 5 3542	253
11	JOHNS HOPKINS UNIV	D WEST	GSFC	G A KRISS	NAG 5 3255	252
11	JOHNS HOPKINS UNIV	D WEST	GSFC	J H KROLLK	NAG 5 3331	252
11	JOHNS HOPKINS UNIV	D WEST	GSFC	J N MURTHY	NAG 5 2398	251
11	JOHNS HOPKINS UNIV	D WEST	GSFC	L TAFF	NAS 5 32914	258
11	JOHNS HOPKINS UNIV	D WEST	GSFC	R H BUSS	NAG 5 2465	251
11	JOHNS HOPKINS UNIV	E C WHIPPLE	HQ	R L MCNUTT	NAGW 3991	256
11	JOHNS HOPKINS UNIV	E P SMITH	GSFC	R BURG	NAG 5 4736	254
11	JOHNS HOPKINS UNIV	G R REGLER	HQ	D NEUFELD	NAGW 3147	256
11	JOHNS HOPKINS UNIV	G R RIEGLER	HQ	J KROLIK	NAGW 3156	256
11	JOHNS HOPKINS UNIV	G S KUTTER	HQ	R BURG	NAGW 2508	255
11	JOHNS HOPKINS UNIV	H HASAN	GSFC	L G TAFF	NAG 5 4605	254
11	JOHNS HOPKINS UNIV	HHASAN	GSFC	D R MCCANDLISS	NAG 5 4261	253
11	JOHNS HOPKINS UNIV	J D BOHLIN	HQ	S OHTANI	NAGW 5128	258
11	JOHNS HOPKINS UNIV	J H OWENS	MSFC	A F DAVIDSEN	NAS 5 27000	258
11	JOHNS HOPKINS UNIV	J SWANK	GSFC	K A WEAVER	NAG 5 4626	254
11	JOHNS HOPKINS UNIV	J SWANK	GSFC	K WEAVER	NAG 5 3380	252
11	JOHNS HOPKINS UNIV	JK ALEXANDER	HQ	D M RUST	NAGW 2866	256
11	JOHNS HOPKINS UNIV	L J CAROFF	HQ	D A NEUFELD	NAGW 3183	256
11	JOHNS HOPKINS UNIV	L KALUZIENSKI	HQ	R E GRIFFITHS	NAGW 3288	256
11	JOHNS HOPKINS UNIV	M B NOLAN	GSFC	M CHIU	NAG 5 4697	254
11	JOHNS HOPKINS UNIV	M B NOLAN	GSFC	T MUELLER	NAG 5 4696	254
11	JOHNS HOPKINS UNIV	M B NOLAN	GSFC	T PARDOE	NAG 5 4698	254
11	JOHNS HOPKINS UNIV	M D DAVIS	GSFC	D C HENRY	NAG 5 3251	252
11	JOHNS HOPKINS UNIV	M E ROSENTHAL	MSFC	R GIACCONI	NAG 8 1133	255
11	JOHNS HOPKINS UNIV	N WHITE	GSFC	A SZALAY	NAG 5 3419	252
11	JOHNS HOPKINS UNIV	N WHITE	GSFC	R GRIFFITHS	NAG 5 2728	252
11	JOHNS HOPKINS UNIV	N WHITE	GSFC	T M HECKMAN	NAG 5 2548	252
11	JOHNS HOPKINS UNIV	R A STACHNIK	HQ	D W DUNHAM	NAGW 4716	257
11	JOHNS HOPKINS UNIV	R OLIVERSEN	GSFC	D T HALL	NAG 5 2622	252
11	JOHNS HOPKINS UNIV	R PETRE	GSFC	T M HECKMAN	NAG 5 1991	251
11	JOHNS HOPKINS UNIV	R PETRE	GSFC	W P BLAIR	NAG 5 1953	251
11	JOHNS HOPKINS UNIV	R V STACHNIK	HQ	A S SZALAY	NAGW 3831	256
11	JOHNS HOPKINS UNIV	R V STACHNIK	HQ	S CASERTANO	NAGW 3861	256
11	JOHNS HOPKINS UNIV	S SOBIESKI	GSFC	W G FASTIE	NAG 5 1617	251
11	JOHNS HOPKINS UNIV	W HUEBNER	GSFC	D WEAVER	NAG 5 4199	253
11	JOHNS HOPKINS UNIV	W J WAGNER	HQ	D M RUST	NAGW 5139	258
11	KENNESAW STATE COLLEGE	F SIX	MSFC	T LAROSA	NAG 8 1107	194
11	KENT STATE UNIV	H HASAN	GSFC	D K YANG	NAG 5 3638	422
11	LAFAYETTE COLLEGE	J BOYCE	GSFC	D HOGENBOOM	NAG 5 4854	447
11	LOUISIANA STATE UNIV – BATON ROUGE	D WEST	GSFC	G C CLAYTON	NAG 5 3338	243
11	LOUISIANA STATE UNIV – BATON ROUGE	D WEST	GSFC	G CHANMUGAM	NAG 5 3082	242
11	LOUISIANA STATE UNIV – BATON ROUGE	D WEST	GSFC	G CLAYTON	NAG 5 3531	243
11	LOUISIANA STATE UNIV – BATON ROUGE	L J KALUZIENSKI	HQ	M L CHERRY	NAGW 3744	243
11	MANKATO STATE UNIV	J P NORRIS	GSFC	J E HAKKILA	NAG 5 3591	327
11	MASSACHUSETTS INST OF TECH	C E WINKLER	MSFC	C R CANIZARES	NAS 8 38249	305
11	MASSACHUSETTS INST OF TECH	C P MCKAY	ARC	H B HAMMEL	NCC 2 952	305
11	MASSACHUSETTS INST OF TECH	C PILCHER	HQ	B I BURKE	NAGW 1386	301
11	MASSACHUSETTS INST OF TECH	D K WEST	GSFC	J HEWITT	NAG 5 3592	297
11	MASSACHUSETTS INST OF TECH	D K WEST	GSFC	S A RAPPAPORT	NAG 5 4057	298
11	MASSACHUSETTS INST OF TECH	D K WEST	GSFC	W H LEWIN	NAG 5 3558	296
11	MASSACHUSETTS INST OF TECH	D NAVA	GSFC	P L GROVE	NAG 5 4768	298
11	MASSACHUSETTS INST OF TECH	D WEST	GSFC	E BERTSCHINGER	NAG 5 2816	295
11	MASSACHUSETTS INST OF TECH	D WEST	GSFC	W H LEWIN	NAG 5 3009	296
11	MASSACHUSETTS INST OF TECH	G BULLOCK	GSFC	A J LAZARUS	NAG 5 584	294
11	MASSACHUSETTS INST OF TECH	H C BRINTON	HQ	H B HAMMEL	NAGW 3310	302
11	MASSACHUSETTS INST OF TECH	J A RAHE	HQ	R BINZEL	NAGW 3901	302

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11	MASSACHUSETTS INST OF TECH	J BERGSTRALH	GSFC	D BINZEL	NAG 5 6117	300
11	MASSACHUSETTS INST OF TECH	J BERGSTRALH	GSFC	D L ELLIOT	NAG 5 3940	297
11	MASSACHUSETTS INST OF TECH	J BERGSTRALH	GSFC	D P BINZEL	NAG 5 3939	297
11	MASSACHUSETTS INST OF TECH	J BERGSTRLH	HQ	P FORD	NAGW 4621	303
11	MASSACHUSETTS INST OF TECH	J H RAHE	HQ	J L ELLIOT	NAGW 1494	301
11	MASSACHUSETTS INST OF TECH	J H RAHE	HQ	R BINZEL	NAGW 1450	301
11	MASSACHUSETTS INST OF TECH	J N CUZZI	ARC	J L ELLIOT	NAG 2 855	292
11	MASSACHUSETTS INST OF TECH	J NORRIS	GSFC	H BRADT	NAG 5 3109	296
11	MASSACHUSETTS INST OF TECH	J P NORRIS	GSFC	G R RICKER	NAG 5 2165	295
11	MASSACHUSETTS INST OF TECH	J P NORRIS	GSFC	V KASPI	NAG 5 3683	297
11	MASSACHUSETTS INST OF TECH	J P NORRIS	GSFC	W H LEWIN	NAG 5 2046	295
11	MASSACHUSETTS INST OF TECH	J P NORRIS	GSFC	W LEWIN	NAG 5 3804	297
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	A LEVINE	NAG 5 3268	296
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	D CHAKRABARTY	NAG 5 4805	299
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	D CHAKRAGARTY	NAG 5 4114	298
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	E MORGAN	NAG 5 3267	296
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	E MORGAN	NAG 5 3314	296
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	G CLARK	NAG 5 3281	296
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	G CLARK	NAG 5 4485	298
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	J RAPPAPORT	NAG 5 3236	296
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	R A REMILARD	NAG 5 4400	298
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	R A REMILLARD	NAG 5 4870	299
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	R REMILLARD	NAG 5 3680	297
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	S RAPPAPORT	NAG 5 3594	297
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	S RAPPAPORT	NAG 5 4115	298
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	V KASPI	NAG 5 4014	297
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	V KASPI	NAG 5 4879	299
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	W LEWIN	NAG 5 4135	298
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	W LEWIN	NAG 5 4486	298
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	W LEWIN	NAG 5 4636	298
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	W LEWIN	NAG 5 4733	298
11	MASSACHUSETTS INST OF TECH	J VARGAS	MSFC	W H LEWIN	NAG 8 286	300
11	MASSACHUSETTS INST OF TECH	L J KALUZIENSKI	HQ	G CLARK	NAGW 2003	302
11	MASSACHUSETTS INST OF TECH	L J KALUZIENSKI	HQ	G RICKER	NAGW 2089	302
11	MASSACHUSETTS INST OF TECH	M A FORMAN	GSFC	D J LAZARUS	NAG 5 4833	299
11	MASSACHUSETTS INST OF TECH	M S BURRELL	GSFC	G W CLARK	NGT 5 57	307
11	MASSACHUSETTS INST OF TECH	N B CUMINGS	MSFC	G RICKER	NAS 8 37716	305
11	MASSACHUSETTS INST OF TECH	N WHITE	GSFC	D DAVIS	NAG 5 3555	296
11	MASSACHUSETTS INST OF TECH	N WHITE	GSFC	D HUENEMOERDER	NAG 5 2740	295
11	MASSACHUSETTS INST OF TECH	N WHITE	GSFC	G RICKER	NAG 5 2685	295
11	MASSACHUSETTS INST OF TECH	N WHITE	GSFC	G W CLARK	NAG 5 2540	295
11	MASSACHUSETTS INST OF TECH	N WHITE	GSFC	J KASTNER	NAG 5 4959	299
11	MASSACHUSETTS INST OF TECH	N WHITE	GSFC	J RAPPAPORT	NAG 5 3241	296
11	MASSACHUSETTS INST OF TECH	N WHITE	GSFC	M W BAUTE	NAG 5 2541	295
11	MASSACHUSETTS INST OF TECH	N WHITE	GSFC	T H MARKERT	NAG 5 2542	295
11	MASSACHUSETTS INST OF TECH	N WHITE	GSFC	V KASPI	NAG 5 4136	298
11	MASSACHUSETTS INST OF TECH	N WHITE	GSFC	V KASPI	NAG 5 4874	299
11	MASSACHUSETTS INST OF TECH	N WHITE	GSFC	W LEWIS	NAG 5 2734	295
11	MASSACHUSETTS INST OF TECH	N WHITES	GSFC	D CANIZARES	NAG 5 2921	296
11	MASSACHUSETTS INST OF TECH	R E DONNELLY	MSFC	G R RICKER	NAG 5 2899	295
11	MASSACHUSETTS INST OF TECH	R J BLAKESLEE	MSFC	E R WILLIAMS	NAG 8 935	300
11	MASSACHUSETTS INST OF TECH	R PETRE	GSFC	C R CANIZARES	NAG 5 1951	294
11	MASSACHUSETTS INST OF TECH	R PETRE	GSFC	P JOSS	NAG 5 2632	295
11	MASSACHUSETTS INST OF TECH	R PETRE	GSFC	W H LEWIN	NAG 5 1826	294
11	MASSACHUSETTS INST OF TECH	W DAVIS	GSFC	H BRADT	NAS 5 30612	304
11	MASSACHUSETTS INST OF TECH	W L QUAIDE	HQ	T E DOWLING	NAGW 2956	302
11	MCMURRY COLLEGE	D K WEST	GSFC	R J THOMPSON	NAG 5 3494	481
11	MICHIGAN STATE UNIV	D K WEST	GSFC	A P LINNELL	NAG 5 3484	313
11	MICHIGAN STATE UNIV	W J WAGNER	GSFC	R F STEIN	NAG 5 4031	313
11	MICHIGAN TECHNOLOGICAL UNIV	D K WEST	GSFC	A BORYSOW	NAG 5 3689	314
11	MICHIGAN TECHNOLOGICAL UNIV	J P NORRIS	GSFC	R J NEMIROFF	NAG 5 3279	314
11	MICHIGAN TECHNOLOGICAL UNIV	J P NORRIS	GSFC	R J NEMIROFF	NAG 5 4756	314
11	MIDDLEBURY COLLEGE	R PETRE	GSFC	P F WINKLER	NAG 5 1668	518
11	MIDDLEBURY COLLEGE	W J WAGNER	GSFC	P WOLFSON	NAG 5 6118	518
11	MISSISSIPPI STATE UNIV	C A MEEGAN	MSFC	J P LESTRADE	NCC 8 82	334
11	MONTANA STATE UNIV	D K WEST	GSFC	S K LINK	NAG 5 3688	343

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11	MONTANA STATE UNIV	G A SOFFEN	GSFC	S TSURUTA	NGT 5 26	344
11	MONTANA STATE UNIV	J DASCH	GSFC	W HASCOCK	NCC 5 240	343
11	MONTANA STATE UNIV	M J HAGYARD	MSFC	R C CANFIELD	NAG 8 1399	343
11	MONTANA STATE UNIV	W J WAGNER	HQ	R C CANFIELD	NAGW 5072	343
11	MONTANA STATE UNIV	W WAGNER	GSFC	D CANFIELD	NAG 5 6110	343
11	MOORHEAD STATE UNIV	D NAVA	GSFC	D O COLSON	NAG 5 4904	327
11	MOREHEAD STATE UNIV	F SIX	MSFC	B MALPHRUS	NAG 8 1119	240
11	MORGAN STATE UNIV	C SOFFEN	GSFC	E DELOATCH	NAG 5 3508	259
11	MT SINAI SCH OF MED OF THE CUNY	P BHARTIA	GSFC	L SIROVICH	NAG 5 3052	389
11	NEW JERSEY INST OF TECH	A POLAND	GSFC	D WANG	NAG 5 3536	357
11	NEW JERSEY INST OF TECH	H NEEDLEMAN	GSFC		NAG 5 5144	357
11	NEW JERSEY INST OF TECH	J P NORRIS	GSFC	H WANG	NAG 5 3088	356
11	NEW JERSEY INST OF TECH	J P NORRIS	GSFC	H WANG	NAG 5 3663	357
11	NEW JERSEY INST OF TECH	W J WAGNER	GSFC	D R GOODE	NAG 5 4919	357
11	NEW JERSEY INST OF TECH	W WAGNER	HQ	D H WANG	NAGW 4732	357
11	NEW MEXICO INST OF MINING & TECH	F C WITTEBORN	ARC	J A EILEK	NCC 2 364	365
11	NEW MEXICO STATE UNIV - LAS CRUCES	C P MCKAY	ARC	M MARLEY	NAG 2 6007	365
11	NEW MEXICO STATE UNIV - LAS CRUCES	D HOLLAND	HQ	M S MARLEY	NGT 51383	367
11	NEW MEXICO STATE UNIV - LAS CRUCES	D HOLLAND	HQ	R M WALLERBOS	NGT 51640	367
11	NEW MEXICO STATE UNIV - LAS CRUCES	D K WEST	GSFC	A KLYPIN	NAG 5 3842	366
11	NEW MEXICO STATE UNIV - LAS CRUCES	D WEST	GSFC	J O BURNS	NAG 5 3362	365
11	NEW MEXICO STATE UNIV - LAS CRUCES	D WEST	GSFC	R A WALTERBOS	NAG 5 2426	365
11	NEW MEXICO STATE UNIV - LAS CRUCES	G R RIEGLER	HQ	J BURNS	NAGW 3152	366
11	NEW MEXICO STATE UNIV - LAS CRUCES	G S KUTTER	HQ	N A DEVEREUX	NAGW 2630	366
11	NEW MEXICO STATE UNIV - LAS CRUCES	J P NORRIS	GSFC	B J MCNAMARA	NAG 5 1516	365
11	NEW MEXICO STATE UNIV - LAS CRUCES	J P NORRIS	GSFC	B J MCNAMARA	NAG 5 3698	366
11	NEW MEXICO STATE UNIV - LAS CRUCES	J P NORRIS	GSFC	T E HARRISON	NAG 5 3114	365
11	NEW MEXICO STATE UNIV - LAS CRUCES	J P NORRIS	GSFC	T E HARRISON	NAG 5 3517	365
11	NEW MEXICO STATE UNIV - LAS CRUCES	J RAHE	HQ	R REEBE	NAGW 1802	366
11	NEW MEXICO STATE UNIV - LAS CRUCES	J SWANK	GSFC	T HARRISON	NAG 5 4402	366
11	NEW MEXICO STATE UNIV - LAS CRUCES	M M MELLOTT	HQ	R L GOLDEN	NAGW 110	366
11	NEW MEXICO STATE UNIV - LAS CRUCES	N WHITE	GSFC	J BURNS	NAG 5 3410	365
11	NEW MEXICO STATE UNIV - LAS CRUCES	R PETRE	GSFC	B MCNAMARA	NAG 5 2702	365
11	NEW MEXICO STATE UNIV - LAS CRUCES	R PETRE	GSFC	J O BURNS	NAG 5 4757	366
11	NEW MEXICO STATE UNIV - LAS CRUCES	R PETRE	GSFC	M LEDLOW	NAG 5 3312	365
11	NY UNIV	F C GILLETT	HQ	A E GLASSGOLD	NAGW 630	389
11	NORTH CAROLINA A&T STATE UNIV	D WEST	GSFC	J M BLONDIN	NAG 5 3110	405
11	NORTH CAROLINA STATE UNIV	D WEST	GSFC	S P REYNOLDS	NAG 5 2844	408
11	NORTH CAROLINA STATE UNIV	N WHITE	GSFC	S REYNOLDS	NAG 5 2972	408
11	NORTH CAROLINA STATE UNIV	R PETRE	GSFC	S REYNOLDS	NAG 5 3415	408
11	NORTH DAKOTA STATE UNIV	R PATER	LARC	M SOUCEK	NGT 1 52159	412
11	NORTHEAST LOUISIANA UNIV	J M BOYCE	GSFC	D A DE HON	NAG 5 4293	245
11	NORTHERN ARIZONA UNIV	D NAVA	GSFC	D TEGLER	NAG 5 4357	26
11	NORTHERN ARIZONA UNIV	E T SCHWARTZ	HQ	B L LUTZ	NGT 10015	27
11	NORTHERN ARIZONA UNIV	H BRINTON	HQ	B LUCCHITTA	NAGW 4545	26
11	NORTHERN ARIZONA UNIV	H BRINTON	HQ	S TEGLER	NAGW 4643	26
11	NORTHERN ARIZONA UNIV	J B BUTLER	GSFC	B WILDEY	NAS 5 96084	27
11	NORTHERN ARIZONA UNIV	J BERGSTRALH	GSFC	D BARNES	NAG 5 4995	26
11	NORTHERN ARIZONA UNIV	J BOYCE	GSFC	D L LUTZ	NAG 5 4385	26
11	NORTHERN ARIZONA UNIV	J H RAHE	HQ	C GRIFFITH	NAGW 3847	26
11	NORTHERN ARIZONA UNIV	J RAHE	HQ	B LUTZ	NAGW 4232	26
11	NORTHERN ARIZONA UNIV	M MEYER	HQ	B K LUCCHITTA	NAGW 5086	27
11	NORTHERN ARIZONA UNIV	P ROGER	HQ	D TEGLER	NAGW 5022	26
11	NORTHERN ARIZONA UNIV	W HUEBNER	GSFC	D A GRIFFITH	NAG 5 4852	26
11	NORTHERN ARIZONA UNIV	W L QUAIDE	HQ	B L LUTZ	NAGW 2811	26
11	NORTHERN KENTUCKY UNIV	F SIX	MSFC	M FALBO-KENKEL	NAG 8 990	240
11	NORTHWESTERN UNIV	D K WEST	GSFC	O S MILLER	NAG 5 3396	208
11	NORTHWESTERN UNIV	D K WEST	GSFC	S M MATZ	NAG 5 3583	208
11	NORTHWESTERN UNIV	D WEST	GSFC	D WANG	NAG 5 2716	208
11	NORTHWESTERN UNIV	D WEST	GSFC	M ULMER	NAG 5 2432	208
11	NORTHWESTERN UNIV	G S KUTTER	HQ	R E TAAM	NAGW 2526	209
11	NORTHWESTERN UNIV	H HASAN	GSFC	D S FINN	NAG 5 4260	209
11	NORTHWESTERN UNIV	J P NORRIS	GSFC	D A GRABELSKY	NAG 5 2826	208
11	NORTHWESTERN UNIV	J P NORRIS	GSFC	D A GRABELSKY	NAG 5 3816	208
11	NORTHWESTERN UNIV	J P NORRIS	GSFC	M P ULMER	NAG 5 3125	208

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11	NORTHWESTERN UNIV	J P NORRIS	GSFC	S M MATZ	NAG 5 3588	208
11	NORTHWESTERN UNIV	J P NORRIS	GSFC	S M MATZ	NAG 5 3926	208
11	NORTHWESTERN UNIV	J P NORRIS	GSFC	W R PURCELL	NAG 5 2822	208
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11	NORTHWESTERN UNIV	JP NORRIS	GSFC	M P ULMER	NAG 5 3490	208
11	NORTHWESTERN UNIV	R PETRE	GSFC	Q WANG	NAG 5 2717	208
11	NORTHWESTERN UNIV	R PETRE	GSFC	Q WANG	NAG 5 3414	208
11	NORTHWESTERN UNIV	R V STACHNIK	HQ	L S FINN	NAGW 4274	209
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11	OHIO STATE UNIV	J SWANK	GSFC	M WAGNER	NAG 5 4239	426
11	OHIO STATE UNIV	J SWANK	GSFC	M WAGNER	NAG 5 4405	426
11	OHIO STATE UNIV	L J CAROFF	HQ	E HERBST	NAGW 2906	426
11	OHIO UNIV	D K WEST	GSFC	J C SHIELDS	NAG 5 3563	429
11	OHIO UNIV	D K WEST	GSFC	J C SHIELDS	NAG 5 3690	429
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11	OLD DOMINION UNIV	M G MACARAEG	LARC	P BALAKUMAR	NAG 1 1677	528
11	OLD DOMINION UNIV	N MAYNARD	HQ	G COTA	NAGW 5123	529
11	OREGON STATE UNIV	D NAVA	GSFC	D DALRYMPLE	NAG 5 4542	440
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11	OREGON STATE UNIV	R PETRE	GSFC	F A PRIMINI	NAG 5 4960	440
11	OREGON STATE UNIV	W QUAIDE	HQ	J R BARNES	NAGW 2445	440
11	PENN	D WEST	GSFC	R F KNACKE	NAG 5 3368	448
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11	PENN STATE UNIV	D HOLLAND	HQ	J CHARLTON	NGT 51638	457
11	PENN STATE UNIV	D K WEST	GSFC	D N BURROWS	NAG 5 3489	451
11	PENN STATE UNIV	D NAVA	GSFC	D WOLSZCZAN	NAG 5 4301	451
11	PENN STATE UNIV	D VANDEMARK	GSFC	N WHITE	NAG 5 5145	452
11	PENN STATE UNIV	D WEST	GSFC	D BURROWS	NAG 5 3166	451
11	PENN STATE UNIV	D WEST	GSFC	G PAVLOV	NAG 5 2807	450
11	PENN STATE UNIV	D WEST	GSFC	J A NOUSEK	NAG 5 3043	451
11	PENN STATE UNIV	D WEST	GSFC	J E NEFF	NAG 5 3040	450
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11	PENN STATE UNIV	D WEST	GSFC	P MESZAROS	NAG 5 2857	450
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11	PENN STATE UNIV	L J CAROFF	HQ	G J BABU	NAGW 4793	454
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11	SAN JOSE STATE UNIV	L ALLAMANDOLA	ARC	B M STONE	NCC 2 5210	62
11	SONOMA STATE UNIV	D WEST	GSFC	G G SPEAR	NAG 5 1621	63
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11	STANFORD UNIV	D NAVA	GSFC	P N ZARE	NAG 5 4844	66
11	STANFORD UNIV	D WEST	GSFC	R V WAGONER	NAG 5 3102	65
11	STANFORD UNIV	D WEST	GSFC	R W ROMANI	NAG 5 3101	65
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11	STANFORD UNIV	J N NORRIS	GSFC	V PETROSIAN	NAG 5 3682	65
11	STANFORD UNIV	J P NORRIS	GSFC	R W ROMANI	NAG 5 3231	65
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11	UNIV OF CALIFORNIA – BERKELEY	R OLIVERSEN	GSFC	M L LAMPTON	NAG 5 3423	75
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11	UNIV OF MARYLAND - COLLEGE PARK	D WEST	GSFC	J M STONE	NAG 5 2886	265
11	UNIV OF MARYLAND - COLLEGE PARK	D WEST	GSFC	R A BELL	NAG 5 3028	265
11	UNIV OF MARYLAND - COLLEGE PARK	E BARKER	HQ	M F A	NAGW 5088	274
11	UNIV OF MARYLAND - COLLEGE PARK	E BARKER	HQ	T LIVENGOOD	NAGW 4846	273
11	UNIV OF MARYLAND - COLLEGE PARK	E F ERICKSON	ARC	L G MUNDY	NAG 2 1045	262
11	UNIV OF MARYLAND - COLLEGE PARK	F EINAUDI	GSFC	R D HUDSON	NCC 5 55	275

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11	UNIV OF MARYLAND - COLLEGE PARK	G BULLOCK	GSFC	G GLOECKLER	NAG 5 705	263
11	UNIV OF MARYLAND - COLLEGE PARK	G J FISHMAN	MSFC	I M MITROFANOV	NCC 8 70	276
11	UNIV OF MARYLAND - COLLEGE PARK	G R RIEGLER	HQ	P A WILSON	NAGW 4700	273
11	UNIV OF MARYLAND - COLLEGE PARK	H HASAN	GSFC	D C BALACHANDRAN	NAG 5 4092	268
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11	UNIV OF MARYLAND - COLLEGE PARK	H THRONSON	GSFC	D HARRIS	NAG 5 6044	270
11	UNIV OF MARYLAND - COLLEGE PARK	J A KAYE	GSFC	R D HUDSON	NAG 5 3788	267
11	UNIV OF MARYLAND - COLLEGE PARK	J A KAYE	HQ	R D HUDSON	NAGW 2696	271
11	UNIV OF MARYLAND - COLLEGE PARK	J A NUTH	GSFC	J R KHANNA	NCC 5 87	276
11	UNIV OF MARYLAND - COLLEGE PARK	J BERGSTRALH	GSFC	D F A	NAG 5 4080	268
11	UNIV OF MARYLAND - COLLEGE PARK	J BOYCE	GSFC	P M STONE	NAG 5 4278	268
11	UNIV OF MARYLAND - COLLEGE PARK	J H RAHE	HQ	M F AHEARN	NAGW 1886	271
11	UNIV OF MARYLAND - COLLEGE PARK	J P NORRIS	GSFC	G M MADEJSKI	NAG 5 4106	268
11	UNIV OF MARYLAND - COLLEGE PARK	J P NORRIS	GSFC	G M MILIKH	NAG 5 3117	266
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11	UNIV OF MARYLAND - COLLEGE PARK	J P NORRIS	GSFC	M LEVENTHAL	NAG 5 2380	264
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11	UNIV OF MARYLAND - COLLEGE PARK	J SWANK	GSFC	D SMITE	NAG 5 3278	266
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11	UNIV OF MARYLAND - COLLEGE PARK	J SWANK	GSFC	S WHITE	NAG 5 3677	267
11	UNIV OF MARYLAND - COLLEGE PARK	J TUELLER	GSFC	M LEVENTHAL	NAG 5 2296	263
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11	UNIV OF MARYLAND - COLLEGE PARK	M E ROSENTHAL	MSFC	A S WILSON	NAG 8 1027	271
11	UNIV OF MARYLAND - COLLEGE PARK	M PHELPS	GSFC	R E LOPEZ	NAG 5 3526	266
11	UNIV OF MARYLAND - COLLEGE PARK	N GAHRELS	GSFC	M LEVENTHAL	NAG 5 2386	264
11	UNIV OF MARYLAND - COLLEGE PARK	N P NORRIS	GSFC	M LEVENTHAL	NAG 5 3676	267
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11	UNIV OF MARYLAND - COLLEGE PARK	R V STACHNIK	HQ	V TRIMBLE	NAGW 4670	273
11	UNIV OF MARYLAND - COLLEGE PARK	S S HOLT	GSFC	J D TRASKO	NAG 5 2400	264
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11	UNIV OF MARYLAND - COLLEGE PARK	W HUEBNER	GSFC	D F A	NAG 5 4201	268
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11	UNIV OF MASSACHUSETTS - AMHERST	D WEST	GSFC	S A RAPPAPORT	NAG 5 3011	309
11	UNIV OF MASSACHUSETTS - AMHERST	G CHIN	GSFC	N ERICKSON	NAG 5 6028	310
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11	UNIV OF MASSACHUSETTS - AMHERST	G S LEVY	HQ	M SKRUTSKIE	NAGW 1935	310
11	UNIV OF MASSACHUSETTS - AMHERST	H THRONSON	GSFC	D R ERICKSON	NAG 5 4272	309
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11	UNIV OF MASSACHUSETTS - AMHERST	L J CAROFF	HQ	K S YNGVESSON	NAGW 4891	310
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11	UNIV OF MICHIGAN - ANN ARBOR	G R RIEGLER	HQ	J N BREGMAN	NAGW 4448	322
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11	UNIV OF MICHIGAN - ANN ARBOR	J BOYCE	GSFC	D BRACE	NAG 5 4556	319
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11	UNIV OF MICHIGAN - ANN ARBOR	J T BERGSTRALH	HQ	J T CLARKE	NAGW 1766	321
11	UNIV OF MICHIGAN - ANN ARBOR	J T BERGSTRALH	HQ	S ATREYA	NAGW 1771	321
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11	UNIV OF NEW HAMPSHIRE - DURHAM	J P NORRIS	GSFC	D C MEREDITH	NAG 5 2731	351
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11	UNIV OF NEW HAMPSHIRE - DURHAM	L J KALUZIENSKI	HQ	J RYAN	NAGW 3761	354
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11	UNIV OF NEW MEXICO	J M BOYCE	GSFC	D J RIETMEIJER	NAG 5 4441	368
11	UNIV OF NEW MEXICO	J P NORRIS	GSFC	R I EPSTEIN	NAG 5 3167	368
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11	UNIV OF NORTH CAROLINA - CHAPEL HILL	J T BERGSTRALH	HQ	R E MILLER	NAGW 1576	411
11	UNIV OF NORTH DAKOTA	D K WEST	GSFC	M J HENRIKSEN	NAG 5 3488	413
11	UNIV OF NORTH DAKOTA	R W STEWART	GSFC	M POELLOT	NAG 5 2699	413
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11	UNIV OF OKLAHOMA - NORMAN	D K WEST	GSFC	E A BARON	NAG 5 3505	438
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11	UNIV OF SOUTHERN CALIFORNIA	R OLIVERSEN	GSFC	G J PETERS	NAG 5 2313	124
11	UNIV OF SOUTHERN CALIFORNIA	R OLIVERSON	GSFC	G J PETERS	NAG 5 2292	124
11	UNIV OF SOUTHERN CALIFORNIA	T KOSTIUK	HQ	D L JUDGE	NAGW 5102	125
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11	UNIV OF SOUTHERN MAINE	F SIX	MSFC		NAG 8 1004	249
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11	UNIV OF TENNESSEE - KNOXVILLE	D NAVA	GSFC	D A TAYLOR	NAG 5 4842	475
11	UNIV OF TENNESSEE - KNOXVILLE	D NAVA	GSFC	D Y MCSWEEN	NAG 5 4387	475
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11	UNIV OF TENNESSEE - KNOXVILLE	J BOYCE	GSFC	D V MCSWEEN	NAG 5 4541	475
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11	UNIV OF TENNESSEE - KNOXVILLE	J J HILLMAN	GSFC	W E BLASS	NAG 5 6237	476
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11	UNIV OF TEXAS - AUSTIN	D WEST	GSFC	D L LAMBERT	NAG 5 2484	502
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11	UNIV OF TEXAS - AUSTIN	D WEST	GSFC	J C WHEELER	NAG 5 2888	502
11	UNIV OF TEXAS - AUSTIN	D WEST	GSFC	J M SCALO	NAG 5 3107	502
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11	UNIV OF TEXAS – AUSTIN	J BERGSTRALH	GSFC	D S BARKER	NAG 5 6140	504
11	UNIV OF TEXAS – AUSTIN	J BERGSTRALH	GSFC	D S BARKER	NAG 5 6368	504
11	UNIV OF TEXAS – AUSTIN	J BERGSTRALH	GSFC	D TRAFTON	NAG 5 4934	504
11	UNIV OF TEXAS – AUSTIN	J BERGSTRALH	HQ	E BAKER	NAGW 5187	507
11	UNIV OF TEXAS – AUSTIN	J BOYCE	GSFC	D D COCHRAN	NAG 5 4384	504
11	UNIV OF TEXAS – AUSTIN	J D ROSEDHAL	GSFC	S BARNES	NAG 5 4566	504
11	UNIV OF TEXAS – AUSTIN	J H RAHE	HQ	A COCHRAN	NAGW 3971	506
11	UNIV OF TEXAS – AUSTIN	J H RAHE	HQ	A WHIPPLE	NAGW 4012	506
11	UNIV OF TEXAS – AUSTIN	J H RAHE	HQ	H J SMITH	NAGW 1477	506
11	UNIV OF TEXAS – AUSTIN	J H RAHE	HQ	L M TRAFTON	NAGW 2314	506
11	UNIV OF TEXAS – AUSTIN	J H RAHE	HQ	W COCHRAN	NAGW 3990	506
11	UNIV OF TEXAS – AUSTIN	J K ALEXANDER	HQ	D T JAFFE	NGT 50998	508
11	UNIV OF TEXAS – AUSTIN	J P NORRIS	GSFC	J C WHEELER	NAG 5 3079	502
11	UNIV OF TEXAS – AUSTIN	J SWANK	GSFC	E ROBINSON	NAG 5 3325	503
11	UNIV OF TEXAS – AUSTIN	J SWANK	GSFC	E ROBINSON	NAG 5 4059	503
11	UNIV OF TEXAS – AUSTIN	L J CAROFF	HQ	D JAFFE	NAGW 4027	506
11	UNIV OF TEXAS – AUSTIN	L QUAIFE	ARC	D F LESTER	NAG 2 748	501
11	UNIV OF TEXAS – AUSTIN	L QUAIFE	ARC	D F LESTER	NAG 2 1073	501
11	UNIV OF TEXAS – AUSTIN	L QUAIFE	ARC	H L DINERSTEIN	NAG 2 1053	501
11	UNIV OF TEXAS – AUSTIN	L QUAIFE	ARC	J H LACY	NAG 2 1051	501
11	UNIV OF TEXAS – AUSTIN	L QUAIFE	ARC	N J EVANS	NAG 2 420	500
11	UNIV OF TEXAS – AUSTIN	L QUAIFE	ARC	N J EVANS	NAG 2 1055	501
11	UNIV OF TEXAS – AUSTIN	L QUAIFE	ARC	P M HARVEY	NAG 2 67	500
11	UNIV OF TEXAS – AUSTIN	L QUAIFE	ARC	P M HARVEY	NAG 2 1076	501
11	UNIV OF TEXAS – AUSTIN	L QUAIFE	ARC	P M HARVEY	NAG 2 1083	501
11	UNIV OF TEXAS – AUSTIN	R V STACHNIK	HQ	F N BASH	NAGW 4808	507
11	UNIV OF TEXAS – AUSTIN	R V STACHNIK	HQ	P J SHELUS	NAGW 4277	507
11	UNIV OF TEXAS – AUSTIN	R V STACHNIK	HQ	R DUNCOMBE	NAGW 3111	506
11	UNIV OF TEXAS – AUSTIN	R V STACHNIK	HQ	R DUNCOMBE	NAGW 4727	507
11	UNIV OF TEXAS – AUSTIN	R V STACHNIK	HQ	R L DUNCOMBE	NAGW 4813	507
11	UNIV OF TEXAS – AUSTIN	S SOBIESKI	GSFC	D L LAMBERT	NAG 5 1616	501
11	UNIV OF TEXAS – DALLAS	J BOYCE	GSFC	D HODGES	NAG 5 4371	509
11	UNIV OF TEXAS – DALLAS	T KOSTIUK	HQ	J H HOFFMAN	NAGW 5104	510
11	UNIV OF TOLEDO	D K WEST	GSFC	K BJORKMAN	NAG 5 3447	435
11	UNIV OF TOLEDO	D WEST	GSFC	A N WITT	NAG 5 3367	435
11	UNIV OF TOLEDO	D WEST	GSFC	J E BJORKMAN	NAG 5 3248	435
11	UNIV OF TOLEDO	G R RIEGLER	HQ	A WITT	NAGW 3168	435
11	UNIV OF TOLEDO	H HASAN	GSFC	D N WITT	NAG 5 3790	435
11	UNIV OF TOLEDO	H THRONSON	GSFC	D N WITT	NAG 5 4338	435
11	UNIV OF TOLEDO	H THRONSON	GSFC	S R FEDERMAN	NAG 5 4957	435
11	UNIV OF TOLEDO	R V STACHNIK	HQ	S R FEDERMAN	NAGW 3840	435
11	UNIV OF UTAH	J F ORMES	GSFC	E C LOH	NAG 5 3902	515
11	UNIV OF UTAH	J P NORRIS	GSFC	B L DINGUS	NAG 5 3802	515
11	UNIV OF VIRGINIA	D BOYCE	GSFC	D E JOHNSON	NAG 5 4283	535
11	UNIV OF VIRGINIA	D K WEST	GSFC	R W O	NAG 5 3428	534
11	UNIV OF VIRGINIA	D NAVA	GSFC	D BARAGIOLA	NAG 5 4651	535
11	UNIV OF VIRGINIA	D WEST	GSFC	C J COX	NAG 5 3342	534
11	UNIV OF VIRGINIA	D WEST	GSFC	C L SARAZIN	NAG 5 3057	534
11	UNIV OF VIRGINIA	D WEST	GSFC	J F HAWLEY	NAG 5 3058	534
11	UNIV OF VIRGINIA	D WEST	GSFC	J M RICHARDS	NAG 5 3056	534
11	UNIV OF VIRGINIA	G CHIN	GSFC	J HESLER	NAG 5 4750	535
11	UNIV OF VIRGINIA	G R RIEGLER	HQ	P R O	NAGW 4106	536
11	UNIV OF VIRGINIA	H THRONSON	GSFC	D W CROWE	NAG 5 6084	535
11	UNIV OF VIRGINIA	J A NUTH	GSFC	L U LILLELEHT	NCC 5 79	537
11	UNIV OF VIRGINIA	J BOYCE	GSFC	S A BALBUS	NAG 5 4600	535
11	UNIV OF VIRGINIA	L J CAROFF	HQ	T W CROWE	NAGW 4007	536
11	UNIV OF VIRGINIA	N WHITE	GSFC	C L SARAZIN	NAG 5 2526	534

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11	UNIV OF VIRGINIA	P G ROGERS	HQ	S BALBUS	NAGW 4431	536
11	UNIV OF VIRGINIA	P ROGERS	HQ	R JOHNSON	NAGW 4028	536
11	UNIV OF VIRGINIA	P ROGERS	HQ	R JOHNSON	NAGW 4029	536
11	UNIV OF VIRGINIA	R PETRE	GSFC	C SARAZIN	NAG 5 3308	534
11	UNIV OF VIRGINIA	R PETRE	GSFC	C SARAZIN	NAG 5 4787	535
11	UNIV OF VIRGINIA	T P STECHER	GSFC	R W O CONNELL	NAG 5 700	534
11	UNIV OF WASHINGTON	D H WOODEN	ARC	D BROWNLEE	NGT 2 52219	553
11	UNIV OF WASHINGTON	D K RUSSELL	HQ	B MARGON	NGT 70325	553
11	UNIV OF WASHINGTON	D K WEST	GSFC	T QUIN	NAG 5 4242	547
11	UNIV OF WASHINGTON	D NAVA	GSFC	D E BROWNLEE	NAG 5 4473	547
11	UNIV OF WASHINGTON	D WEST	GSFC	C J HOGAN	NAG 5 2793	545
11	UNIV OF WASHINGTON	D WEST	GSFC	G R LAKE	NAG 5 3023	546
11	UNIV OF WASHINGTON	D WEST	GSFC	P A SZKODY	NAG 5 2114	545
11	UNIV OF WASHINGTON	D WEST	GSFC	P SZKODY	NAG 5 3345	546
11	UNIV OF WASHINGTON	G A SOFFEN	GSFC	C J HOGAN	NGT 5 6	553
11	UNIV OF WASHINGTON	G R RIEGLER	HQ	P SZKODY	NAGW 3158	549
11	UNIV OF WASHINGTON	G S KUTTER	HQ	G LAKE	NAGW 2676	549
11	UNIV OF WASHINGTON	J BOYCE	GSFC	D S MCCALLUM	NAG 5 4540	547
11	UNIV OF WASHINGTON	J P NORRIS	GSFC	T H BURNETT	NAG 5 3825	547
11	UNIV OF WASHINGTON	J R FISCHER	GSFC	G LAKE	NAG 5 2213	545
11	UNIV OF WASHINGTON	J SWANK	GSFC	B MARGON	NAG 5 3293	546
11	UNIV OF WASHINGTON	J SWANK	GSFC	P E BOYNTON	NAG 5 4105	547
11	UNIV OF WASHINGTON	J SWANK	GSFC	P SZKODY	NAG 5 3292	546
11	UNIV OF WASHINGTON	J SWANK	GSFC	P SZKODY	NAG 5 4791	548
11	UNIV OF WASHINGTON	M DAHL	HQ	D E BROWNLEE	NAG 7 3	548
11	UNIV OF WASHINGTON	M SAUNDERS	HQ	D E BROWNLEE	NAG 7 2	548
11	UNIV OF WASHINGTON	M ZOLENSKY	JSC	D E BROWNLEE	NAG 9 683	549
11	UNIV OF WASHINGTON	R OLIVERSEN	GSFC	P A SZKODY	NAG 5 2303	545
11	UNIV OF WASHINGTON	R OLIVERSEN	GSFC	P SZKODY	NAG 5 2315	545
11	UNIV OF WASHINGTON	R OLIVERSEN	GSFC	P SZKODY	NAG 5 2767	545
11	UNIV OF WASHINGTON	R OLIVERSEN	GSFC	P SZKODY	NAG 5 3121	546
11	UNIV OF WASHINGTON	R PETRE	GSFC	B H MARGON	NAG 5 1518	545
11	UNIV OF WASHINGTON	R PETRE	GSFC	P SZKODY	NAG 5 1927	545
11	UNIV OF WASHINGTON	S HEAP	GSFC	P W HODGE	NAG 5 3034	546
11	UNIV OF WISCONSIN – MADISON	A SMITH	GSFC	B D SAVAGE	NAG 5 1852	559
11	UNIV OF WISCONSIN – MADISON	D HOLLAND	HQ	E CHURCHWELL	NGT 51132	566
11	UNIV OF WISCONSIN – MADISON	D K WEST	GSFC	J J MACFARLANE	NAG 5 3703	561
11	UNIV OF WISCONSIN – MADISON	D K WEST	GSFC	K H NORDSIECK	NAG 5 3377	561
11	UNIV OF WISCONSIN – MADISON	D K WEST	GSFC	K WOOD	NAG 5 3430	561
11	UNIV OF WISCONSIN – MADISON	D K WEST	GSFC	W T SANDERS	NAG 5 3524	561
11	UNIV OF WISCONSIN – MADISON	D WEST	GSFC	D P COX	NAG 5 3155	561
11	UNIV OF WISCONSIN – MADISON	D WEST	GSFC	H B OGELMAN	NAG 5 3506	561
11	UNIV OF WISCONSIN – MADISON	D WEST	GSFC	H OGELMAN	NAG 5 3021	560
11	UNIV OF WISCONSIN – MADISON	D WEST	GSFC	J P CASSINE III	NAG 5 3315	561
11	UNIV OF WISCONSIN – MADISON	D WEST	GSFC	J P CASSINELLI	NAG 5 2282	560
11	UNIV OF WISCONSIN – MADISON	D WEST	GSFC	J P CASSINELLI	NAG 5 2854	560
11	UNIV OF WISCONSIN – MADISON	D WEST	GSFC	K H NORDSIECK	NAG 5 1463	559
11	UNIV OF WISCONSIN – MADISON	D WEST	GSFC	P WANG	NAS 5 32646	565
11	UNIV OF WISCONSIN – MADISON	D WEST	GSFC	W T SANDERS	NAG 5 3080	561
11	UNIV OF WISCONSIN – MADISON	G R RIEGLER	HQ	J P CASSINELLI	NAGW 4527	564
11	UNIV OF WISCONSIN – MADISON	G S KUTTER	HQ	L S SPARKE	NAGW 2420	563
11	UNIV OF WISCONSIN – MADISON	H C BRINTON	HQ	F SCHERH	NAGW 3319	563
11	UNIV OF WISCONSIN – MADISON	H D VITAGLIANO	GSFC	F ROESLER	NAS 5 30131	565
11	UNIV OF WISCONSIN – MADISON	H HASAN	GSFC	D E LAWLER	NAG 5 4259	562
11	UNIV OF WISCONSIN – MADISON	J BOYCE	GSFC	B L BEARD	NAG 5 6342	562
11	UNIV OF WISCONSIN – MADISON	J H OWENS	MSFC	A D CODE	NAS 5 26777	565
11	UNIV OF WISCONSIN – MADISON	J H RAHE	HQ	E CHURCHWELL	NAGW 3877	563
11	UNIV OF WISCONSIN – MADISON	J K ALEXANDER	HQ	B D SAVAGE	NGT 51003	566
11	UNIV OF WISCONSIN – MADISON	J P NORRIS	GSFC	W KLUZNIAK	NAG 5 3122	561
11	UNIV OF WISCONSIN – MADISON	J SWANK	GSFC	H OGELMAN	NAG 5 4625	562
11	UNIV OF WISCONSIN – MADISON	L QUAIFE	ARC	E B CHURCHWELL	NAG 2 859	558
11	UNIV OF WISCONSIN – MADISON	M S BURRELL	GSFC	P TIMBIE	NGT 5 46	566
11	UNIV OF WISCONSIN – MADISON	N WHITE	GSFC	J CASSINELLI	NAG 5 2705	560
11	UNIV OF WISCONSIN – MADISON	R J OLIVERSEN	GSFC	J P CASSINELLI	NAG 5 4761	562
11	UNIV OF WISCONSIN – MADISON	R L KELLEY	GSFC	D MCCAMMON	NAG 5 2720	560

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11	UNIV OF WISCONSIN - MADISON	R PETRE	GSFC	J G HOESSEL	NAG 5 2534	560
11	UNIV OF WISCONSIN - MADISON	R PETRE	GSFC	J P CASSINELLI	NAG 5 1683	559
11	UNIV OF WISCONSIN - MADISON	R PETRE	GSFC	J P CASSINELLI	NAG 5 1841	559
11	UNIV OF WISCONSIN - MADISON	R PETRE	GSFC	W T SANDERS	NAG 5 1894	560
11	UNIV OF WISCONSIN - MADISON	R STACHNIK	HQ	J E LAWLER	NAGW 2908	563
11	UNIV OF WISCONSIN - MADISON	R STACHNIK	HQ	K BJORKMAN	NAGW 2921	563
11	UNIV OF WISCONSIN - MADISON	R V STACHNIK	HQ	C L JOSEPH	NAGW 4273	564
11	UNIV OF WISCONSIN - MADISON	R V STACHNIK	HQ	J S MATHIS	NAGW 3833	563
11	UNIV OF WISCONSIN - MADISON	R W STEWART	GSFC	M H HITCHMAN	NAG 5 2722	560
11	UNIV OF WISCONSIN - MADISON	S SOBIESKI	GSFC	R C BLESS	NAG 5 1613	559
11	UNIV OF WISCONSIN - MADISON	T KOSTIUK	HQ	J ANDERSON	NAGW 4651	564
11	UNIV OF WYOMING	D K WEST	GSFC	S B HOWELL	NAG 5 4233	568
11	UNIV OF WYOMING	D WEST	GSFC	S HOWELL	NAG 5 3379	568
11	UNIV OF WYOMING	H C BRINTON	HQ	R R HOWELL	NAGW 1276	568
11	UNIV OF WYOMING	J BERGSTRALH	GSFC	D R HOWELL	NAG 5 3935	568
11	UNIV OF WYOMING	J D BREGMAN	ARC	C E WOODWARD	NGT 2 52218	569
11	UNIV OF WYOMING	J SWANK	GSFC	S HOWELL	NAG 5 4869	568
11	UNIV OF WYOMING	L J CAROFF	HQ	H A THRONSON	NAGW 4898	568
11	UNIV OF WYOMING	N WHITE	GSFC	S HOWELL	NAG 5 3301	568
11	UNIV OF WYOMING	R J OLIVERSEN	GSFC	S B HOWELL	NAG 5 3523	568
11	UNIV OF WYOMING	R J OLIVERSEN	GSFC	S B HOWELL	NAG 5 4241	568
11	UNIV OF WYOMING	R PETRE	GSFC	S B HOWELL	NAG 5 4864	568
11	UTAH STATE UNIV	G SCHWEMMER	GSFC	T D WILKERSON	NCC 5 219	517
11	VALDOSTA STATE UNIV	D K WEST	GSFC	D L BUZASI	NAG 5 3468	197
11	VALPARISO UNIV	D WEST	GSFC	B J HRIVNAK	NAG 5 1223	230
11	VALPARISO UNIV	D WEST	GSFC	B J HRIVNAK	NAG 5 2645	230
11	VALPARISO UNIV	D WEST	GSFC	B J HRIVNAK	NAG 5 3346	230
11	VANDERBILT UNIV	D NAVA	GSFC	D A WEINTRAUB	NAG 5 4291	477
11	VANDERBILT UNIV	D NAVA	GSFC	D A WEINTRAUB	NAG 5 4428	477
11	VILLANOVA UNIV	D WEST	GSFC	C AMBRUSTER	NAG 5 980	461
11	VILLANOVA UNIV	D WEST	GSFC	E F GUINAN	NAG 5 2160	461
11	VILLANOVA UNIV	D WEST	GSFC	J CARDELLI	NAG 5 3539	462
11	VILLANOVA UNIV	D WEST	GSFC	J SIAH	NAG 5 2462	461
11	VILLANOVA UNIV	D WEST	GSFC	SION	NAG 5 3221	461
11	VILLANOVA UNIV	G RIEGLER	HQ	V SOFIA	NAGW 4607	462
11	VILLANOVA UNIV	N E WHITE	GSFC	E GUINAN	NAG 5 2707	461
11	VILLANOVA UNIV	PETRE	GSFC	C AMBRUSTER	NAG 5 2413	461
11	VILLANOVA UNIV	R OLIVERSEN	GSFC	C W AMBRUSTER	NAG 5 2279	461
11	VILLANOVA UNIV	R OLIVERSEN	GSFC	E F GUINAN	NAG 5 3136	461
11	VILLANOVA UNIV	R OLIVERSEN	GSFC	E SION	NAG 5 2278	461
11	VILLANOVA UNIV	R PETRE	GSFC	E F GUINAN	NAG 5 2494	461
11	VILLANOVA UNIV	R PETRE	GSFC	E GUINAN	NAG 5 4520	462
11	WASHINGTON STATE UNIV	H BRINTON	HQ	R HUDSON	NAGW 4636	554
11	WASHINGTON UNIV	A NURRIDDI	GSFC	K KELTON	NGT 5 50030	342
11	WASHINGTON UNIV	D NAVA	GSFC	D A PODOSEK	NAG 5 4098	339
11	WASHINGTON UNIV	D NAVA	GSFC	D A POSODEK	NAG 5 4820	340
11	WASHINGTON UNIV	J BERGSTRALH	HQ	B FEGLEY	NAGW 4485	341
11	WASHINGTON UNIV	J BOYCE	GSFC	D B MCKINNON	NAG 5 4325	339
11	WASHINGTON UNIV	J BOYCE	GSFC	D FEGLEY	NAG 5 4323	339
11	WASHINGTON UNIV	J BOYCE	GSFC	D FEGLEY	NAG 5 4324	339
11	WASHINGTON UNIV	J BOYCE	GSFC	P K ZINNER	NAG 5 4281	339
11	WASHINGTON UNIV	J BOYCE	HQ	D WALKER	NAG 5 6291	340
11	WASHINGTON UNIV	J P NORRIS	GSFC	J I KATZ	NAG 5 2862	338
11	WASHINGTON UNIV	L K KALUZIENSKI	HQ	P HINK	NAGW 4261	341
11	WASHINGTON UNIV	R V STACHNIK	HQ	C M WILL	NAGW 3874	341
11	WASHINGTON UNIV	W L QUAIDE	HQ	B T FEGLEY	NAGW 2861	341
11	WASHINGTON UNIV	W L QUAIDE	HQ	B T FEGLEY	NAGW 2867	341
11	WELLESLEY COLLEGE	J N CUZZI	ARC	R G FRENCH	NAG 2 814	311
11	WESLEYAN UNIV	D NAVA	GSFC	D HERBST	NAG 5 4821	154
11	WEST VIRGINIA WEYSLEYAN COLLEGE	J A NUTH	GSFC	P A WITHEY	NCC 5 71	557
11	WESTERN KENTUCKY UNIV	C J CRANNELL	GSFC	C H MCGRUDER	NAG 5 2595	242
11	WESTERN KENTUCKY UNIV	J P NORRIS	GSFC	M CARINI	NAG 5 3822	242
11	WESTERN MARYLAND COLLEGE	G SCHWEMMES	GSFC	D GUERRA	NAG 5 3300	279
11	WICHITA STATE UNIV	D K WEST	GSFC	F ALLARD	NAG 5 3435	240
11	WITTENBERG UNIV	D K WEST	GSFC	J A GRIGSBY	NAG 5 3535	437

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11	YALE UNIV	D WEST	GSFC	C D BALLYN	NAG 5 2867	155
11	YALE UNIV	D WEST	GSFC	P DEMARQUE	NAG 5 2795	154
11	YALE UNIV	G S KUTTER	HQ	C BAILYN	NAGW 2469	155
11	YALE UNIV	G SOFFEN	GSFC	D PROBER	NGT 5 20	156
11	YALE UNIV	J P NORRIS	GSFC	B E SCHAEFER	NAG 5 2775	154
11	YALE UNIV	L J CAROFF	HQ	D E PROBER	NAGW 3879	155
11	YALE UNIV	R A STACHNIK	HQ	A R UPGREN	NAGW 4821	155
11	YALE UNIV	R PETRE	GSFC	C BAILYN	NAG 5 6076	155
11	YALE UNIV	R STACHNIK	HQ	A OEMLER	NAGW 3563	155
12	ALABAMA A&M UNIV	A C BEAM	MSFC	K J CHANG	NAG 8 1172	1
12	BALDWIN – WALLACE COLLEGE	E G WINTUCKY	LERC	J W MCCARGAR	NCC 3 300	413
12	CALIFORNIA INST OF TECH	C HIX	JPL	G A BLAKE	NGT 51276	52
12	CALIFORNIA INST OF TECH	D A HOLLAND	HQ	R A MEWALDT	NAGW 4666	51
12	CALIFORNIA INST OF TECH	D HOLLAND	GSFC	R A MEWALDT	NAG 5 3466	45
12	CALIFORNIA INST OF TECH	D HOLLAND	HQ	D BURNETT	NGT 51084	52
12	CALIFORNIA INST OF TECH	J BOYCE	GSFC	D J WASSERBURG	NAG 5 4076	46
12	CALIFORNIA INST OF TECH	J BOYCE	GSFC	D J WASSERBURG	NAG 5 4083	46
12	CALIFORNIA INST OF TECH	J D RUMMEL	HQ	G A BLAKE	NAGW 1955	49
12	CALIFORNIA INST OF TECH	N WHITE	GSFC	A LANGE	NAG 5 2966	45
12	CALIFORNIA INST OF TECH	R PETRE	GSFC	S KULKARNI	NAG 5 2911	44
12	CASE WESTERN RESERVE UNIV	M A MEADOR	LERC	C N SUKENIK	NCC 3 377	416
12	CENTRAL STATE UNIV – OHIO	D MIYPSHI	LERC	A RENGAN	NAS 3 27790	418
12	CLEMSON UNIV – CLEMSON	D F NAVA	GSFC	D D CLAYTON	NAG 5 4329	468
12	CLEVELAND STATE UNIV	F I HURWITZ	LERC	J MASNOVI	NCC 3 376	420
12	COLLEGE OF WILLIAM AND MARY	L EVANS	LARC	R A ORWOLL	NGT 51258	521
12	COLLEGE OF WILLIAM AND MARY	P R YOUNG	LARC	R A OKWALL	NAG 1 1548	520
12	COLLEGE OF WILLIAM AND MARY	S A THIBEAULT	LARC	R L KIEFER	NCC 1 239	521
12	COLLEGE OF WILLIAM AND MARY	S A THIBEAULT	LARC	R L KIEFER	NCC 1 262	521
12	COLLEGE OF WILLIAM AND MARY	W JACKSON	LARC	M K HINDERS	NAG 1 1647	520
12	CORNELL UNIV	M MEYER	HQ	C SAGAN	NAGW 1896	384
12	CORNELL UNIV	M MEYER	HQ	D A USHER	NAGW 5228	386
12	CORNELL UNIV	M PUSEY	MSFC	R THORNE	NAG 8 1357	384
12	EMORY & HENRY COLLEGE	T L ST. CLAIR	LARC	P R YOUNG	NAG 1 1943	522
12	FLORIDA INST OF TECH	D LUECK	KSC	J C BAUM	NGT10 52604	170
12	FLORIDA STATE UNIV	M C LEE	HQ	E MANOUSAKIS	NAGW 3326	172
12	GEORGIA SOUTHERN COLLEGE	B DONN	GSFC	R H NELSON	NAG 5 496	194
12	GRAMBLING STATE UNIV	M A MEADOR	LERC	D E HUBBARD	NCC 3 512	242
12	HAMPTON UNIV	T L ST. CLAIR	LARC	J C WILLIAMS	NAG 1 1941	524
12	HARVARD UNIV	D NAVA	HQ	M FRANKLIN	NAGW 4609	289
12	JOHNS HOPKINS UNIV	N WHITE	GSFC	G KRISS	NAG 5 2935	252
12	KENT STATE UNIV	A F HEPP	LERC	C VARCAS ABURTO	NCC 3 563	422
12	MANCHESTER COLLEGE	C HUNG	LERC	E G MILLER	NCC 3 317	225
12	MONTANA STATE UNIV	J ZWIENER	MSFC	T K MINTON	NGT 8 52838	344
12	MONTANA STATE UNIV	M MEYER	GSFC	M G WARD	NAG 5 3652	343
12	NEW MEXICO HIGHLANDS UNIV	B G PENN	MSFC	R D CLARK	NAG 8 1057	364
12	NORFOLK STATE UNIV	P R YOUNG	LARC	L MATTIX	NAG 1 1453	526
12	NORTH CAROLINA A&T STATE UNIV	B PENN	MSFC	A P KENNEDY	NAG 8 1396	406
12	NORTHWESTERN UNIV	D K RUSSELL	HQ	T MARKS	NGT 70355	209
12	OLD DOMINION UNIV	B J JENSEN	LARC	K L WISE	NGT 1 52124	531
12	OLD DOMINION UNIV	L EVANS	LARC	J B COOPER	NGT 51253	531
12	PENN STATE UNIV	F MONTEGANI	LERC	H R ALLOCK	NGT 51131	456
12	PENN STATE UNIV	N WHITE	GSFC	R CORBET	NAG 5 2975	450
12	POLYTECH INST OF NY	K THOMPSON	KSC	E D WEIL	NAG10 174	390
12	POLYTECH INST OF NY	K THOMPSON	KSC	K LEVON	NAG10 173	390
12	PRAIRIE VIEW A&M UNIV	M A MEADOR	LERC	L E CARSON-ISABELLE	NCC 3 577	482
12	PRINCETON UNIV	D NOENER	MSFC	D SAVILLE	NAG 8 1368	359
12	RENSSELAER POLYTECH INST	D L PALUMBO	LARC	J HADDOCK	NAG 1 1469	390
12	RENSSELAER POLYTECH INST	D LARKIN	LERC	L V INTERRANTE	NAG 3 1776	390
12	RENSSELAER POLYTECH INST	D LARKIN	LERC	L V INTERRANTE	NAG 3 1856	390
12	RENSSELAER POLYTECH INST	J D RUMMEL	HQ	J P FERRIS	NAGW 2781	391
12	RICE UNIV	S FARMER	LERC	A R BARRON	NAS 3 97017	485
12	RUTGERS STATE UNIV – PISCATAWAY	M L PUSEY	MSFC	D ARNOLD	NAG 8 975	362
12	RUTGERS STATE UNIV – PISCATAWAY	N WHITE	GSFC	J HUGHES	NAG 5 4871	361
12	SAN JOSE STATE UNIV	J R VALENTIN	ARC	J F BECKER	NCC 2 5234	62
12	SAN JOSE STATE UNIV	J VALENTIN	ARC	J F BECKER	NCC 2 5142	61

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12	SOUTHWEST TEXAS STATE UNIV	E J PRIOR	LARC	P E CASSIDY	NGT 70271	486
12	SPELMAN COLLEGE	B G PENN	MSFC	B H CARDELINO	NCC 8 71	196
12	SPELMAN COLLEGE	Y R HICKS	LERC	P C CHEN	NAG 3 1974	195
12	STATE UNIV OF NY - STONY BROOK	N WHITE	GSFC	F WALTER	NAG 5 2936	395
12	TEXAS A&M UNIV	M MOORE	ARC	M B HALL	NGT 51337	491
12	THE CATHOLIC UNIV OF AMERICA	D WEST	GSFC	F C BRUHWELLER	NAG 5 2126	163
12	THE CATHOLIC UNIV OF AMERICA	L J STIEF	GSFC	D J BOGAN	NCC 5 178	164
12	THE CATHOLIC UNIV OF AMERICA	L J STIEF	GSFC	F L NESBITT	NCC 5 68	164
12	THE UNIV OF CENTRAL FLORIDA	R WERLINK	KSC	M F SIEMER	NGT10 52606	175
12	TOUGALOO COLLEGE	G A LASANE	HQ	G V BRUNO	NAGW 4152	334
12	TUSKEGEE UNIV	B DELIWALA	KSC	K HAILE	NAG10 176	6
12	TUSKEGEE UNIV	K THOMPSON	KSC	N VAHDAT	NAG10 125	5
12	UNIV OF MINN - MINNEAPOLIS-ST PAUL	D F NAVA	GSFC	D O PEPIN	NAG 5 4330	329
12	UNIV OF MINN - MINNEAPOLIS-ST PAUL	H C NEDDLEMAN	GSFC	C J WADDINGTON	NAG 5 5113	330
12	UNIV OF MINN - MINNEAPOLIS-ST PAUL	S R LANGHOFF	ARC	D G TRUHLAR	NAG 2 880	328
12	UNIV OF AKRON	J A DEVER	LERC	M ESPE	NAG 3 2079	430
12	UNIV OF AKRON	M A MEADOR	LERC	W J YOUNGS	NCC 3 225	430
12	UNIV OF AKRON	P M HERGENROTHER	LARC	F W HARRIS	NAG 1 448	429
12	UNIV OF ALABAMA - BIRMINGHAM	M MEYER	HQ	T WDOWIAK	NAGW 4854	7
12	UNIV OF ALABAMA - BIRMINGHAM	P ROGERS	HQ	T J WDOWIAK	NAGW 4158	7
12	UNIV OF ALABAMA - HUNTSVILLE	D K RUSSELL	HQ	P C RICHARDS	NGT 70390	15
12	UNIV OF ALABAMA - HUNTSVILLE	J CAMPBELL	MSFC	L SMALLEY	NAG 8 1403	12
12	UNIV OF ARIZONA	J BOYCE	GSFC	D J DRAKE	NAG 5 4084	31
12	UNIV OF ARKANSAS - LITTLE ROCK	C BRYAN	KSC	T VISWANATHAN	NAG10 181	42
12	UNIV OF ARKANSAS - LITTLE ROCK	C J BRYAN	KSC	T VISWANATHAN	NAG10 156	42
12	UNIV OF CALIFORNIA - BERKELEY	D F NAVA	GSFC	D NISHIIZUMI	NAG 5 4992	78
12	UNIV OF CALIFORNIA - BERKELEY	D HOLLAND	HQ	R J SAYKALLY	NGT 51378	86
12	UNIV OF CALIFORNIA - BERKELEY	J SWANK	GSFC	R KLEIN	NAG 5 3385	75
12	UNIV OF CALIFORNIA - BERKELEY	M MEYER	HQ	R SAYKALLY	NAGW 4847	81
12	UNIV OF CALIFORNIA - BERKELEY	R F PFAFF, JR.	GSFC	C W CARLSON	NAG 5 3596	76
12	UNIV OF CALIFORNIA - BERKELEY	R OLIVERSEN	GSFC	S YENNEZ	NAG 5 2636	74
12	UNIV OF CALIFORNIA - DAVIS	J H RAHE	HQ	W JACKSON	NAGW 4016	89
12	UNIV OF CALIFORNIA - LOS ANGELES	D F NAVA	GSFC	D T WASSON	NAG 5 4331	98
12	UNIV OF CALIFORNIA - LOS ANGELES	J BOYCE	GSFC	D H WARREN	NAG 5 4215	97
12	UNIV OF CALIFORNIA - RIVERSIDE	B J HERRON	MSFC	A MCPHERSON	NAG 8 957	105
12	UNIV OF CALIFORNIA - SAN DIEGO	D CHANG	ARC	D FOMENKOVA	NCC 2 5191	113
12	UNIV OF CALIFORNIA - SAN DIEGO	J BOYCE	GSFC	R LUGMAIR	NAG 5 4145	109
12	UNIV OF CALIFORNIA - SAN DIEGO	J SWANK	GSFC	W HEINDL	NAG 5 3276	108
12	UNIV OF CALIFORNIA - SAN FRANCISCO	S CHANG	ARC	M A WILSON	NCC 2 772	115
12	UNIV OF CALIFORNIA - SANTA CRUZ	R PETRE	GSFC	A ZABLUDOFF	NAG 5 4866	121
12	UNIV OF CALIFORNIA - SANTA CRUZ	S CHANG	ARC	A KANAVARIOTI	NCC 2 534	122
12	UNIV OF CHICAGO	J BOYCE	GSFC	D N CLAYTON	NAG 5 3986	212
12	UNIV OF CHICAGO	R PETRE	GSFC	R ROSKER	NAG 5 3201	211
12	UNIV OF COLORADO - BOULDER	A NOVOTNY	HQ	M TOLBERT	NGT 51415	149
12	UNIV OF COLORADO - BOULDER	G LESANE	HQ	M A TOLBERT	NGT 51135	148
12	UNIV OF COLORADO - BOULDER	J SWANK	GSFC	J LINSKY	NAG 5 3383	135
12	UNIV OF COLORADO - BOULDER	J SWANK	GSFC	T AYERS	NAG 5 3382	135
12	UNIV OF FLORIDA	B T UPCHURCH	LARC	K S SCHANZE	NAG 1 1809	175
12	UNIV OF FLORIDA	G LESANE	HQ	R DURAN	NGT 51418	180
12	UNIV OF HAWAII - MANOA	J D RUMMEL	HQ	T C OWEN	NAGW 2631	200
12	UNIV OF HAWAII SYSTEM	P G ROGERS	GSFC	D KEIL	NAG 5 4212	204
12	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	N WHITE	GSFC	Y CHU	NAG 5 2973	219
12	UNIV OF IOWA	C TALLEY	MSFC	J M WIENCEK	NAG 8 1386	235
12	UNIV OF MARYLAND - COLLEGE PARK	J W KELLER	GSFC	J WEINER	NAG 5 1966	263
12	UNIV OF MICHIGAN - ANN ARBOR	J D RUMMEL	HQ	J C WALKER	NAGW 176	321
12	UNIV OF MICHIGAN - ANN ARBOR	S R GONDA	JSC	H Y WANG	NAG 9 652	321
12	UNIV OF MISSOURI - COLUMBIA	S R LANGHOFF	ARC	G D SMITH	NCC 2 903	337
12	UNIV OF MISSOURI - SAINT LOUIS	J A HINKLEY	LARC	W J WELSH	NAG 1 1656	338
12	UNIV OF NEW MEXICO	J BOYCE	GSFC	D J PAPIKE	NAG 5 4253	368
12	UNIV OF NEW ORLEANS	W B ALSTON	LERC	J P DROSKE	NAG 3 1906	247
12	UNIV OF NOTRE DAME	T Y MILLER	MSFC	D T LEIGHTON	NAG 8 1080	229
12	UNIV OF PUERTO RICO - MAYAGUEZ	B PENN	MSFC	A LEYDERMAN	NCC 8 37	570
12	UNIV OF SOUTHERN CALIFORNIA	Y KELLOGG	DFRC	K DOZIER	NAG 4 137	124
12	UNIV OF TOLEDO	K P KUNDU	LERC	K J DEWITT	NCC 3 513	436
12	UNIV OF TOLEDO	M J RABINOWITZ	LERC	K J DEWITT	NAG 3 1307	434

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12	UNIV OF VIRGINIA	J A HINKLEY	LARC	B L FARMER	NGT 1 52100	538
12	UNIV OF WASHINGTON	B MCLACHLAN	ARC	M GOUTERMAN	NCA 2 2002	552
12	UNIV OF WASHINGTON	J H BELL	ARC	M P GOUTERMAN	NAG 2 1157	544
12	UNIV OF WASHINGTON	R PETRE	GSFC	P HODGE	NAG 5 3357	546
12	UNIV OF WISCONSIN – MADISON	R PETRE	GSFC	R MATHIEU	NAG 5 2915	560
12	UNIV OF WISCONSIN – STEVENS POINT	W B ALSTON	LERC	J P DROSKE	NAG 3 1908	567
12	VIRGINIA COMMONWEALTH UNIV	PM HERGENROTHER	LARC	R G BASS	NAG 1 1251	543
12	WASHINGTON UNIV	J BOYCE	GSFC	D A HASKIN	NAG 5 4172	339
12	WASHINGTON UNIV	J BOYCE	GSFC	D HOHENBERG	NAG 5 4173	339
12	WASHINGTON UNIV	J BOYCE	GSFC	D M WALKER	NAG 5 4493	339
12	WASHINGTON UNIV	M MEYER	HQ	E L SHOCK	NAGW 2818	340
12	WASHINGTON UNIV	P G ROGERS	HQ	B FEGLEY	NAGW 4521	341
12	WASHINGTON UNIV	T Y MILLER	MSFC	M R WARDELL	NAG 8 1241	340
12	WOODS HOLE OCEANOGRAPHIC INST	D A HOLLAND	HQ	G E RAVIZZA	NAGW 4720	312
12	WOODS HOLE OCEANOGRAPHIC INST	D HOLLAND	GSFC	G E RAVIZZA	NAG 5 3752	311
12	XAVIER UNIV – LOUISIANA	M MATEU	GSFC	E E EDUOK	NAG 5 3512	248
13	ALABAMA A&M UNIV	A CHOW	MSFC	K HE	NAG 8 1335	1
13	ALABAMA A&M UNIV	B PENN	MSFC	R B LAL	NAG 8 1129	1
13	ALABAMA A&M UNIV	D FRAZIER	MSFC	M D AGGARWAL	NAG 8 1390	2
13	ALABAMA A&M UNIV	D FRAZIER	MSFC	P B LAI	NGT 8 52811	2
13	ALABAMA A&M UNIV	G ADAMOUSKY	LERC	P VENKETESWARLU	NAG 3 1408	1
13	ALABAMA A&M UNIV	G ADAWOVSKY	LERC	P VENKATESWARLY	NAG 3 1956	1
13	ALABAMA A&M UNIV	G H FICHTL	MSFC	P VENKATESWARLU	NCC 8 27	2
13	ALABAMA A&M UNIV	G H FICHTL	MSFC	R B LAL	NAG 8 203	1
13	ALABAMA A&M UNIV	J L RANDALL	MSFC	M D AGGARWAL	NAG 8 125	1
13	ALABAMA A&M UNIV	W J LOVE	MSFC	B R REDDY	NAG 8 1125	1
13	ARIZONA STATE UNIV	L KEFFER	HQ	D L REED	NAGW 4890	25
13	AUBURN UNIV	E C WHIPPLE	HQ	S F KNOWLTON	NAGW 4005	3
13	AUBURN UNIV	M J CINTALA	JSC	M F ROSE	NCC 9 27	3
13	AUGSBURG COLLEGE	J WILLETT	GSFC	D J ENGBRETSON	NAG 5 3719	327
13	BIRMINGHAM SOUTHERN COLLEGE	J F DOWDY	MSFC	K B BACHMANN	NAG 8 1280	4
13	BOSTON COLLEGE	J K ALEXANDER	HQ	R L CORNVILLANN	NGT 50996	280
13	BOSTON COLLEGE	P BROCKMAN	LARC	B DIBARTOLO	NAG 1 955	279
13	BOSTON COLLEGE	W J WAGNER	GSFC	D F WEBB	NAG 5 4946	279
13	BOSTON COLLEGE	W J WAGNER	HQ	D F WEBB	NAGW 4578	280
13	BOSTON UNIV	E BARKER	HQ	M MENDILLO	NAGW 4917	283
13	BOSTON UNIV	E C WHIPPLE	HQ	H E SPENCE	NAGW 3953	283
13	BOSTON UNIV	J B WILLETT	HQ	H SPENCE	NAGW 5030	283
13	BOSTON UNIV	J B WILLETT	HQ	N AVAILABLE	NAGW 5163	283
13	BOSTON UNIV	J BOHLIN	GSFC	D SPENCE	NAG 5 6126	282
13	BOSTON UNIV	J BOHLIN	GSFC	P J KALMAN	NAG 5 4922	282
13	BOSTON UNIV	J GREBOWSKY	GSFC	D E SPENCE	NAG 5 4682	282
13	BOSTON UNIV	J GREBOWSKY	GSFC	D HUGHES	NAG 5 4660	282
13	BOSTON UNIV	J GREBOWSKY	GSFC	D L SISCOE	NAG 5 4247	281
13	BOSTON UNIV	J GREBOWSKY	GSFC	D MENDILLO	NAG 5 4246	281
13	BOSTON UNIV	J WILLETT	GSFC	W HUGHES	NAG 5 3868	281
13	BOSTON UNIV	M H ACUNA	GSFC	T A FRITZ	NAG 5 2578	280
13	BOSTON UNIV	M L GOLDSTEIN	GSFC	T A FRITZ	NAG 5 2266	280
13	BOSTON UNIV	M M MELLOTT	GSFC	D E SPENCE	NAG 5 4273	281
13	BOSTON UNIV	M M MELLOTT	GSFC	D MENDILLO	NAG 5 4707	282
13	BOSTON UNIV	M M MELLOTT	HQ	G M ERICKSON	NAGW 2627	282
13	BOSTON UNIV	M M MELLOTT	HQ	W J HUGHES	NAGW 1627	282
13	BOSTON UNIV	R A HOFFMAN	HQ	G L SISCOE	NAGW 4488	283
13	BOSTON UNIV	R A HOFFMAN	HQ	H E SPENCE	NAGW 4537	283
13	BOSTON UNIV	R A HOFFMAN	HQ	M MENDILLO	NAGW 4622	283
13	BOSTON UNIV	R H PLESS	GSFC	S CHAKRABARTI	NAG 5 690	280
13	BOSTON UNIV	R HOWARD	GSFC	D E SPENCE	NAG 5 3748	281
13	BOSTON UNIV	W JOHNSON	GSFC	S CHAKRABARTI	NAG 5 5137	282
13	BOSTON UNIV	W V JONES	HQ	N U CROOKER	NAGW 4571	283
13	BRANDEIS UNIV	D HOLLAND	HQ	J WARDLE	NGT 51658	284
13	BRIGHAM YOUNG UNIV	E SCHWARTZ	HQ	J W MOODY	NGT 51411	514
13	BROWN UNIV	A NURRUDDIN	HQ	G SEIDEL	NGT 51262	465
13	BROWN UNIV	B FLOWERS	GSFC	G SEIDEL	NAG 5 5133	463
13	BROWN UNIV	B S SINGH	LERC	D ELBAUM	NAG 3 1929	462

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13	BROWN UNIV	G SOFFEN	GSFC	R H BRANDENBERGER	NGT 51011	465
13	BROWN UNIV	H BRINTON	HQ	J W HEAD	NAGW 5023	465
13	BROWN UNIV	J M BOYCE	HQ	C M PIETERS	NAGW 4910	465
13	BROWN UNIV	J M BOYCE	HQ	J F MUSTARD	NAGW 4896	464
13	BROWN UNIV	M BURRELL	GSFC	P T TIMBIE	NGT 51187	465
13	CALIFORNIA INST OF TECH	A NURRIDDIN	GSFC	F A HARRISON	NGT 5 50006	52
13	CALIFORNIA INST OF TECH	B S SINGH	LERC	N YEH	NAG 3 1899	44
13	CALIFORNIA INST OF TECH	D HOLLAND	HQ	R MEWALDT	NGT 51156	52
13	CALIFORNIA INST OF TECH	F SIX	MSFC	J CARLSTROM	NGT 51201	52
13	CALIFORNIA INST OF TECH	F SIX	MSFC	T A PRINCE	NGT 51184	52
13	CALIFORNIA INST OF TECH	G SOFFEN	GSFC	T G PHILLIPS	NGT 51212	52
13	CALIFORNIA INST OF TECH	G SOFFEN	GSFC	T PHILLIPS	NGT 5 35	52
13	CALIFORNIA INST OF TECH	H C NEDDLEMAN	GSFC	R A MEWALDT	NAG 5 5067	48
13	CALIFORNIA INST OF TECH	J RAHE	HQ	E SERABYN	NAGW 4945	51
13	CALIFORNIA INST OF TECH	J T BERGSTRALH	HQ	H ZIRIN	NAGW 1972	49
13	CALIFORNIA INST OF TECH	J WILLET	HQ	D GARRAD	NAGW 4752	51
13	CALIFORNIA INST OF TECH	W J WAGNER	HQ	D E GARY	NAGW 4563	51
13	CALIFORNIA INST OF TECH	W J WAGNER	HQ	G J HURFORD	NAGW 3994	50
13	CALIFORNIA INST OF TECH	W J WAGNER	HQ	K G LIBBRECHT	NAGW 4058	50
13	CALIFORNIA INST OF TECH	W V JONES	HQ	E C STONE	NAGW 3012	49
13	CALIFORNIA STATE UNIV - LONG BEACH	K HSIEH	LERC	J LIU	NAG 3 1830	54
13	CALIFORNIA STATE UNIV - LONG BEACH	N R HALL	LERC	J LIU	NAG 3 1634	54
13	CARNEGIE - MELLON UNIV	R SKARDA	LERC	S GAROFF	NCC 3 465	445
13	CASE WESTERN RESERVE UNIV	A CHAIT	LERC	P L TAYLOR	NAG 3 1201	414
13	CASE WESTERN RESERVE UNIV	A CHAIT	LERC	P L TAYLOR	NCC 3 554	417
13	CASE WESTERN RESERVE UNIV	C R TALLEY	MSFC	C ROSENBLATT	NAG 8 1270	414
13	CASE WESTERN RESERVE UNIV	C R TALLEY	MSFC	M KAFOREY	NAG 8 1268	414
13	CASE WESTERN RESERVE UNIV	D FERAUSON	LERC	I GREBER	NAG 3 1798	414
13	CASE WESTERN RESERVE UNIV	J A POWELL	LERC	P PIROUZ	NAG 3 1702	414
13	CASE WESTERN RESERVE UNIV	S G BAILEY	LERC	M TABIB-AZAR	NCC 3 510	416
13	CHRISTOPHER NEWPORT UNIV	J L SHINN	LARC	C K CHANG	NCC 1 178	519
13	CHRISTOPHER NEWPORT UNIV	M NAMKUNG	LARC	C M HILS	NGT 1 52108	519
13	CHRISTOPHER NEWPORT UNIV	P BROCKMAN	LARC	A M BUONCRISTIANI	NAG 1 796	519
13	CITY UNIV OF NY CITY COLLEGE	B L WHITE	HQ	R ALFANO	NAGW 4098	370
13	CITY UNIV OF NY CITY COLLEGE	B SINGH	LERC	J KOPLIK	NAG 3 1836	370
13	CITY UNIV OF NY CITY COLLEGE	R W VERNON	LERC	J KOPLIK	NAG 3 1167	370
13	CLARK ATLANTA UNIV	A F HEPP	LERC	C R HANDY	NCC 3 286	186
13	CLARK ATLANTA UNIV	R ROOD	GSFC	D STEPHENSON-HAWK	NAG 5 6169	185
13	CLEMSON UNIV - CLEMSON	J BOHLIN	HQ	D L HYSELL	NAGW 4546	468
13	CLEMSON UNIV - CLEMSON	L J EARLY	GSFC	M F LARSON	NAG 5 5002	468
13	CLEMSON UNIV - CLEMSON	L W GURKIN	GSFC	M F LARSEN	NAG 5 5085	468
13	CLEMSON UNIV - CLEMSON	R H PLESS	GSFC	J W MERIWETHER	NAG 5 5043	468
13	CLEMSON UNIV - CLEMSON	R H PLESS	GSFC	M F LARSEN	NAG 5 5034	468
13	CLEVELAND STATE UNIV	A CHAIT	LERC	J A LOCK	NCC 3 521	421
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13	CLEVELAND STATE UNIV	S K RUTLEDGE	LERC	P D HAMBOURGER	NCC 3 522	421
13	CLEVELAND STATE UNIV	S KUTLEDGE	LERC	P D HAMBOURGER	NCC 3 383	420
13	COLLEGE OF WILLIAM AND MARY	E I MADARAS	LARC	P HINDERS	NGT 1 52127	521
13	COLLEGE OF WILLIAM AND MARY	K E CRAMER	LARC	D M MANOS	NAG 1 1597	520
13	COLLEGE OF WILLIAM AND MARY	M A SMITH	LARC	D C BENNER	NCC 1 80	521
13	COLLEGE OF WILLIAM AND MARY	P H JOHNSTON	LARC	B T SMITH	NAG 1 1063	520
13	COLLEGE OF WILLIAM AND MARY	R ROGOWSKI	LARC	D M MANOS	NAG 1 1665	520
13	COLLEGE OF WILLIAM AND MARY	R S ROGOWSKI	LARC	D M MANOS	NAG 1 1668	520
13	COLLEGE OF WOOSTER	R A WILKINSON	LERC	D T JACOBS	NAG 3 1404	421
13	COLORADO STATE UNIV	V K RAWLIN	LERC	P J WILBUR	NAG 3 1801	128
13	COLUMBIA UNIV	B A HARMON	MSFC	P KAARET	NGT 8 52806	379
13	COLUMBIA UNIV	B J FLOWERS	GSFC	S M KAHN	NAG 5 5123	376
13	COLUMBIA UNIV	C HIX	JPL	P KAARET	NGT 51038	379
13	COLUMBIA UNIV	E C WHIPPLE	HQ	M E MAUEL	NAGW 3539	377
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13	COLUMBIA UNIV	L JEARLY	GSFC	C MARTIN	NAG 5 642	372
13	CORNELL UNIV	D J BOHLIN	HQ	C E SEYLER	NAGW 4594	386
13	CORNELL UNIV	H BRINTON	HQ	J B BELL	NAGW 5062	386
13	CORNELL UNIV	J D BOHLIN	HQ	N F OTANI	NAGW 4449	385
13	CORNELL UNIV	J M BOYCE	HQ	P C THOMAS	NAGW 4905	386
13	CORNELL UNIV	L J EARLY	GSFC	M C KELLEY	NAG 5 5009	383
13	CORNELL UNIV	L J EARLY	GSFC	P KINTNER	NAG 5 691	381
13	CORNELL UNIV	L J EARLY	GSFC	P KINTNER	NAG 5 5008	383
13	CORNELL UNIV	L WGURKIN	GSFC	M C KELLEY	NAG 5 5080	383
13	CORNELL UNIV	M M MELLOTT	GSFC	D E SEYLER	NAG 5 4464	383
13	CORNELL UNIV	P F PENKO	LERC	I D BOYD	NAG 3 1451	381
13	CORNELL UNIV	P G ROGERS	HQ	R POHL	NAGW 4469	385
13	CORNELL UNIV	R H PLESS	GSFC	C A TEPLEY	NAG 5 5045	383
13	CORNELL UNIV	R H PLESS	GSFC	M C KELLEY	NAG 5 5036	383
13	CORNELL UNIV	R H PLESS	GSFC	M C KELLEY	NAG 5 5038	383
13	CORNELL UNIV	W B JOHNSON	GSFC	P KINTNER	NAG 5 5079	383
13	CORNELL UNIV	W JOHNSON	GSFC	P KINTNER	NAG 5 5134	384
13	CORNELL UNIV	W M SATTMAN	JSC	W M SATTMAN	NAG 8 1372	384
13	DARTMOUTH COLLEGE	D HOLLAND	HQ	M HUDSON	NGT 51657	350
13	DARTMOUTH COLLEGE	E C WHIPPLE	HQ	B SONNERUP	NAGW 4023	349
13	DARTMOUTH COLLEGE	J BOHLIN	GSFC	D G LYON	NAG 5 4889	349
13	DARTMOUTH COLLEGE	J BOHLIN	GSFC	D O SONNERUP	NAG 5 6268	349
13	DARTMOUTH COLLEGE	J D BOHLIN	HQ	J G LYON	NAGW 5214	350
13	DARTMOUTH COLLEGE	J GREBOWSKY	GSFC	D G LYON	NAG 5 4663	349
13	DARTMOUTH COLLEGE	L J EARLY	GSFC	J W LABELLE	NAG 5 663	348
13	DARTMOUTH COLLEGE	M L GOLDSTEIN	GSFC	B SONNERUP	NAG 5 3031	348
13	DARTMOUTH COLLEGE	M M MELLOTT	GSFC	D LOTKO	NAG 5 4529	349
13	DARTMOUTH COLLEGE	M M MELLOTT	GSFC	D W LABELLE	NAG 5 4943	349
13	DARTMOUTH COLLEGE	M M MELLOTT	HQ	W LOTKO	NAGW 3989	349
13	DARTMOUTH COLLEGE	R A HOFFMAN	HQ	J G LYON	NAGW 4540	349
13	DARTMOUTH COLLEGE	R A HOFFMAN	HQ	M K HUDSON	NAGW 4728	350
13	DARTMOUTH COLLEGE	R H PLESS	GSFC	J W LABELLE	NAG 5 5039	349
13	DARTMOUTH COLLEGE	S A CURTIS	GSFC	M K HUDSON	NAG 5 1098	348
13	DARTMOUTH COLLEGE	T J BIRMINGHAM	GSFC	W LOTKO	NAG 5 2252	348
13	DARTMOUTH COLLEGE	W V JONES	HQ	J G LYON	NAGW 4583	350
13	DUKE UNIV	B S SINGH	LERC	H MEYER	NAG 3 1838	401
13	FAYETTEVILLE STATE UNIV	F SIX	MSFC	J WU	NAG 8 996	404
13	FISK UNIV	D O FRAZIER	MSFC	E SILHERMAN	NCC 8 133	473
13	FISK UNIV	J I TROMKA	GSFC	A BURGER	NAG 5 4011	473
13	FISK UNIV	S E MASSENBERG	HQ	E SILBERMAN	NAGW 2925	473
13	FISK UNIV	S G BAILEY	LERC	D O HENDERSON	NAG 3 1942	472
13	FISK UNIV	S R BULLOCK	LERC	W E COLLINS	NAG 3 1430	472
13	FLA INTERNATIONAL UNIV	F SIX	MSFC	W V VAN HAMME	NAG 8 272	166
13	FLA INTERNATIONAL UNIV	J J HILLMAN	GSFC	J W SHELDON	NAG 5 2583	166
13	FLORIDA ATLANTIC UNIV	R LEE	KSC	W H HARTT	NAG10 193	169
13	FLORIDA INST OF TECH	J BOHLIN	GSFC	D B MOLDWIN	NAG 5 4897	170
13	FLORIDA INST OF TECH	S D COBB	MSFC	J D PATTERSON	NAG 8 1094	170
13	FLORIDA STATE UNIV	B S SINGH	LERC	E MANOUSAKIS	NAG 3 1841	171
13	FLORIDA STATE UNIV	J S PREISSER	LARC	C W TAM	NAG 1 1776	170
13	GALLAUDET UNIV	D K RUSSELL	HQ	G MCGAUGHRAN	NGT 90275	158
13	GEORGE MASON UNIV	J GREBOWSKY	GSFC	D A FEDDER	NAG 5 4727	523
13	GEORGE MASON UNIV	J P NORRIS	GSFC	M KAFATOS	NCC 5 52	523
13	GEORGE MASON UNIV	J R FISCHER	GSFC	R LOHNER	NAG 5 2652	522
13	GEORGE MASON UNIV	L J KALUZIENSKI	GSFC	D F CIOFFI	NAG 5 6089	523
13	GEORGIA INST OF TECH	K K MONTGOMERY	MSFC	W G ROBINSON	NAG 8 1138	189
13	GEORGIA SOUTHERN COLLEGE	F HORZ	JSC	W W ANDERSON	NAG 9 913	194
13	HAMPTON UNIV	B L WHITE	HQ	D TEMPLE	NAGW 2929	525
13	HAMPTON UNIV	F A CUCINOTTA	LARC	K M MAUNG	NCC 1 242	526
13	HAMPTON UNIV	G ADAMOVSKY	LERC	R LYONS	NAG 3 1720	524
13	HAMPTON UNIV	J J SINGH	LARC	A C SMITH	NAG 1 1742	524
13	HAMPTON UNIV	J W WILSON	LARC	L J MORELL	NGT 1 52148	526
13	HAMPTON UNIV	M B MEYER	LERC	D R LYONS	NAG 3 2033	524
13	HAMPTON UNIV	R HATHAWAY	LARC	D A TEMPLE	NCC 1 251	526
13	HAMPTON UNIV	S R BULLOCK	LERC	D R LYONS	NAG 3 2034	525

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13	HARVARD UNIV	B M CARPENTER	HQ	F A SPAEPEN	NAGW 2838	288
13	HARVARD UNIV	D HOLLAND	HQ	A LEOB	NGT 51664	290
13	HARVARD UNIV	D HOLLAND	HQ	M NAHUM	NGT 51405	290
13	HARVARD UNIV	D HOLLAND	HQ	R P KIRSHNER	NGT 51093	290
13	HARVARD UNIV	E BARKER	HQ	J X LUU	NAGW 4928	289
13	HARVARD UNIV	H C NEEDLEMAN	GSFC	J E GRINDLAY	NAG 5 5103	287
13	HARVARD UNIV	J D BOHLIN	HQ	W H PARKINSON	NAGW 1687	288
13	HARVARD UNIV	J K ALEXANDER	HQ	J E GRINDLAY	NGT 50999	290
13	HARVARD UNIV	L TAFF	HQ	W H PARKINSON	NAGW 4888	289
13	HARVARD UNIV	S JKATZBERG	LARC	M COSMO	NAG 1 1969	285
13	HOPE COLLEGE	F SIX	MSFC	P L GONTHIER	NAG 8 263	313
13	HOWARD UNIV	J I TROMBKA	GSFC	T TSANG	NAG 5 156	161
13	HOWARD UNIV	N D PILTCH	LERC	P MISRA	NAG 3 1677	160
13	HOWARD UNIV	N E MASSENBERS	HQ	A N THORNE	NAGW 2950	162
13	HOWARD UNIV	W B SULLIVAN	GSFC	A N THORPE	NAG 5 1057	161
13	INDIANA UNIV - BLOOMINGTON	D HOLLAND	HQ	V E VIOLA	NGT 51403	225
13	INDIANA UNIV - BLOOMINGTON	H C NEEDLEMAN	GSFC	J MUSSER	NAG 5 5058	224
13	INDIANA UNIV - BLOOMINGTON	M M MELLOTT	HQ	R M HEINZ	NAGW 1035	224
13	JOHNS HOPKINS UNIV	B J FLOWERS	GSFC	P D FELDMAN	NAG 5 5122	254
13	JOHNS HOPKINS UNIV	D HOLLAND	HQ	A SZALAY	NGT 51661	259
13	JOHNS HOPKINS UNIV	E BARKER	HQ	H A WEAVER	NAGW 5234	258
13	JOHNS HOPKINS UNIV	E C WHIPPLE	HQ	A Y LUI	NAGW 3449	256
13	JOHNS HOPKINS UNIV	E C WHIPPLE	HQ	B J ANDERSON	NAGW 4133	257
13	JOHNS HOPKINS UNIV	E C WHIPPLE	HQ	D G SIBECK	NAGW 3523	256
13	JOHNS HOPKINS UNIV	E C WHIPPLE	HQ	K TAKAHASHI	NAGW 3058	256
13	JOHNS HOPKINS UNIV	E C WHIPPLE	HQ	M KANE	NAGW 4043	256
13	JOHNS HOPKINS UNIV	G R RIEGLER	HQ	G A KRISS	NAGW 4443	257
13	JOHNS HOPKINS UNIV	J BERGSTRALH	HQ	S M KRIMIGIS	NAGW 4929	258
13	JOHNS HOPKINS UNIV	J BOHLIN	GSFC	D E ERLANDSON	NAG 5 4549	254
13	JOHNS HOPKINS UNIV	J BOHLIN	GSFC	D G SIBECK	NAG 5 4679	254
13	JOHNS HOPKINS UNIV	J BOHLIN	GSFC	D H MAUK	NAG 5 6182	255
13	JOHNS HOPKINS UNIV	J BOHLIN	GSFC	D OHTANI	NAG 5 4969	254
13	JOHNS HOPKINS UNIV	J BOHLIN	GSFC	D OHTANI	NAG 5 6178	255
13	JOHNS HOPKINS UNIV	J D BOHLIN	GSFC	D G SIBECK	NAG 5 4009	253
13	JOHNS HOPKINS UNIV	J D BOHLIN	HQ	D E ANDERSON	NAGW 4457	257
13	JOHNS HOPKINS UNIV	J D BOHLIN	HQ	G CROWLEY	NAGW 4439	257
13	JOHNS HOPKINS UNIV	J D BOHLIN	HQ	L GOEMBEL	NAGW 4660	257
13	JOHNS HOPKINS UNIV	J G GREBOWSKY	GSFC	D J ANDERSON	NAG 5 4664	254
13	JOHNS HOPKINS UNIV	J GREBOWSKY	GSFC	D G SIBECK	NAG 5 4672	254
13	JOHNS HOPKINS UNIV	J RAHE	HQ	J F APPLEBY	NAGW 4979	258
13	JOHNS HOPKINS UNIV	J WILLETT	GSFC	D B HOLLAND	NAG 5 3869	253
13	JOHNS HOPKINS UNIV	J WILLETT	GSFC	D M KRIMIGIS	NAG 5 4365	253
13	JOHNS HOPKINS UNIV	J WILLETT	GSFC	M TOSSMAN	NAG 5 6113	255
13	JOHNS HOPKINS UNIV	J WILLETT	HQ	D G SIBECK	NAGW 4913	258
13	JOHNS HOPKINS UNIV	J WILLETT	HQ	L J ZANETTI	NAGW 4902	257
13	JOHNS HOPKINS UNIV	J WILLETT	HQ	S M KRIMIGIS	NAGW 4901	257
13	JOHNS HOPKINS UNIV	L J EARLY	GSFC	P D FELDMAN	NAG 5 619	251
13	JOHNS HOPKINS UNIV	L TAFF	HQ	S R MCCANDISS	NAGW 4882	257
13	JOHNS HOPKINS UNIV	M M MELLOTT	GSFC	D T NEWELL	NAG 5 4525	253
13	JOHNS HOPKINS UNIV	M M MELLOTT	GSFC	D WING	NAG 5 4010	253
13	JOHNS HOPKINS UNIV	M M MELLOTT	HQ	B H MAUK	NAGW 2691	255
13	JOHNS HOPKINS UNIV	M M MELLOTT	HQ	D G MITCHELL	NAGW 2583	255
13	JOHNS HOPKINS UNIV	M M MELLOTT	HQ	K B BAKER	NAGW 4718	257
13	JOHNS HOPKINS UNIV	M M MELLOTT	HQ	P T NEWELL	NAGW 4424	257
13	JOHNS HOPKINS UNIV	M MELLOTT	GSFC	D GARY	NAG 5 6050	255
13	JOHNS HOPKINS UNIV	M MELLOTT	GSFC	D YEE	NAG 5 6000	255
13	JOHNS HOPKINS UNIV	M MELLOTT	HQ	R E ERLANDSON	NAGW 4055	256
13	JOHNS HOPKINS UNIV	R A HOFFMAN	GSFC	C MENG	NAG 5 3187	252
13	JOHNS HOPKINS UNIV	R A HOFFMAN	HQ	F C ROELOF	NAGW 4729	257
13	JOHNS HOPKINS UNIV	R HOWARD	GSFC	D G MITCHELL	NAG 5 3879	253
13	JOHNS HOPKINS UNIV	R HOWARD	GSFC	D H MAUK	NAG 5 4582	254
13	JOHNS HOPKINS UNIV	S A CURTIS	GSFC	R A GREENWALD	NAG 5 1099	251
13	JOHNS HOPKINS UNIV	T KOSTIUK	HQ	R MCNUTT	NAGW 4547	257
13	JOHNS HOPKINS UNIV	W B JOHNSON	GSFC	J YEE	NAG 5 5082	254
13	JOHNS HOPKINS UNIV	W J WAGNER	GSFC	D M RUST	NAG 5 4955	254

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13	KENT STATE UNIV	D L CHUBB	LERC	C VARGAS-ABURTO	NAG 3 1693	422
13	KENT STATE UNIV	G RYBICKI	LERC	C VARGAS-ABURTO	NAG 3 1726	422
13	KENT STATE UNIV	I WEINBERG	LERC	C V ABURTO	NAG 3 946	422
13	KENT STATE UNIV	J LARIMER	ARC	P J BOS	NCC 2 988	422
13	LOUISIANA STATE UNIV - BATON ROUGE	H NEEDLEMAN	GSFC	M CHERRY	NAG 5 5127	243
13	LOUISIANA STATE UNIV - BATON ROUGE	J WILLEH	HQ	T G GUZIK	NAGW 4404	243
13	LOUISIANA STATE UNIV - BATON ROUGE	J WILLETT	GSFC	D G GUZIK	NAG 5 4154	243
13	LOUISIANA STATE UNIV - BATON ROUGE	M M MELLOTT	HQ	J P WEFEL	NAGW 1027	243
13	LOUISIANA STATE UNIV - BATON ROUGE	M M MELLOTTE	HQ	T G GUZIK	NAGW 1526	243
13	LOUISIANA STATE UNIV - BATON ROUGE	R HOWARD	GSFC	D P WEFEL	NAG 5 3770	243
13	LOUISIANA STATE UNIV - BATON ROUGE	W V JONES	HQ	J P WEFEL	NAGW 4577	243
13	MARQUETTE UNIV	H J COLE	MSFC	MATTHYS	NAG 8 1111	557
13	MASSACHUSETTS INST OF TECH	B FACEMIRE	MSFC	T A HATTON	NAG 8 951	300
13	MASSACHUSETTS INST OF TECH	B FLOWERS	GSFC	C R CANIZARES	NAG 5 5105	299
13	MASSACHUSETTS INST OF TECH	D GILMAN	HQ	G RICKER	NASW 4690	305
13	MASSACHUSETTS INST OF TECH	F SIX	MSFC	W H LEWIN	NGT 51369	306
13	MASSACHUSETTS INST OF TECH	H BRINTON	HQ	M T ZUBER	NAGW 5021	304
13	MASSACHUSETTS INST OF TECH	J D BOHLIN	GSFC	M I PAULARENA	NAG 5 4360	298
13	MASSACHUSETTS INST OF TECH	J MURPHY	GSFC	D RICKER	NAS 5 32929	304
13	MASSACHUSETTS INST OF TECH	M KAPLAN	HQ	G R RICKER	NAGW 4763	304
13	MASSACHUSETTS INST OF TECH	M M HASAN	LERC	A A SONIN	NAG 3 1845	293
13	MASSACHUSETTS INST OF TECH	M M MELLOTT	HQ	A J LAZARUS	NAGW 1550	302
13	MASSACHUSETTS INST OF TECH	R F BENSON	GSFC	M C LEE	NAG 5 1055	294
13	MASSACHUSETTS INST OF TECH	R KESSEL	GSFC	D LAZARUS	NCC 5 239	306
13	MASSACHUSETTS INST OF TECH	R LAWRENCE	GSFC	J M KOMMERS	NGT 8 52816	307
13	MASSACHUSETTS INST OF TECH	R PETRE	GSFC	W LEWIN	NAG 5 3206	296
13	MASSACHUSETTS INST OF TECH	T J BIRMINGHAM	GSFC	T CHANG	NAG 5 2255	295
13	MASSACHUSETTS INST OF TECH	W J WAGONER	HQ	P KUMAR	NAGW 3936	303
13	MASSACHUSETTS INST OF TECH	W V JONES	HQ	A J LAZARUS	NAGW 3941	303
13	MICHIGAN STATE UNIV	E S CHUNG	GSFC	E D LOH	NAG 5 3218	313
13	MICHIGAN STATE UNIV	J D BOHLIN	HQ	R F STEIN	NAGW 1695	313
13	MIDDLEBURY COLLEGE	J D BOHLIN	HQ	R WOLFSON	NAGW 2141	518
13	MONTANA STATE UNIV	G A SOFFEN	GSFC	J CARLSTEN	NGT 5 24	344
13	MONTANA STATE UNIV	G LESANE	HQ	H SCHMIDT	NGT 51667	344
13	MONTANA STATE UNIV	L TAFF	HQ	L A LINDBLOM	NAGW 4866	343
13	MORGAN STATE UNIV	J S CHITWOOD	GSFC	C WILLIAMS	NCC 5 204	260
13	MORGAN STATE UNIV	W SULLIVAN	GSFC	F W OLIVER	NAG 5 2375	259
13	NEW JERSEY INST OF TECH	W WAGNER	GSFC	D WANG	NAG 5 6055	357
13	NEW MEXICO HIGHLANDS UNIV	B G PENN	MSFC	R D CLARK	NAG 8 1288	364
13	NEW MEXICO STATE UNIV - LAS CRUCES	H C NEEDLEMAN	GSFC	S J STOCHAJ	NAG 5 5060	366
13	NEW MEXICO STATE UNIV - LAS CRUCES	H C NEEDLEMAN	GSFC	S J STOCHAJ	NAG 5 5068	366
13	NEW MEXICO STATE UNIV - LAS CRUCES	H C NEEDLEMAN	GSFC	W P WEBBER	NAG 5 5073	366
13	NEW MEXICO STATE UNIV - LAS CRUCES	W JONES	HQ	W R WEBBER	NAGW 2016	366
13	NEW MEXICO STATE UNIV - LAS CRUCES	W V JONES	HQ	W R WEBBER	NAGW 3022	366
13	NORTH CAROLINA STATE UNIV	L TAFF	HQ	R M MAYO	NAGW 4869	408
13	NORTH CAROLINA STATE UNIV	T J BIRMINGHAM	GSFC	D C ELLISON	NAG 5 2254	408
13	NORTHWESTERN UNIV	D HOLLAND	HQ	J B KETTERSON	NGT 51301	209
13	NORTHWESTERN UNIV	L W GURKIN	GSFC	M P ULMER	NAG 5 5094	209
13	NORTHWESTERN UNIV	M WEISLOGEL	LERC	S LICHTER	NAG 3 1892	207
13	NORTHWESTERN UNIV	R A WILKINSON	LERC	A Z PATASHINSKI	NAG 3 1617	207
13	OHIO STATE UNIV	D R WOODARD	MSFC	P K DUTTA	NAG 8 1267	426
13	OHIO STATE UNIV	M J KURYLO	HQ	F C DE LUCIA	NAGW 2639	426
13	OHIO STATE UNIV	M MANTENIEKS	LERC	P J TURCHI	NAG 3 1764	424
13	OHIO STATE UNIV	R S SKARDA	LERC	C D ANDERECK	NAG 3 1612	424
13	OKLAHOMA STATE UNIV	B SINGH	LERC	O TONG	NAG 3 1852	437
13	OKLAHOMA STATE UNIV	D F CHAO	LERC	P TONET	NAG 3 1613	437
13	OKLAHOMA STATE UNIV	G A ZIMMERLI	LERC	B J ACKERSON	NAG 3 1624	437
13	OLD DOMINION UNIV	D I KAPLAN	JSC	L VUSKOVIC	NAG 9 956	529
13	OLD DOMINION UNIV	E V BROWELL	LARC	H ELSAYED-ALI	NAG 1 1578	528
13	OLD DOMINION UNIV	G C GREENE	LARC	R L ASH	NAG 1 1437	527
13	OLD DOMINION UNIV	L W TOWNSEND	LARC	G S KHANDELWAL	NCC 1 42	530
13	OLD DOMINION UNIV	R A KIMBLE	GSFC	J BECHER	NAG 5 1527	529
13	OREGON GRADUATE INST OF SCI & TECH	R W ROOD	MSFC	U S RAO GUDIMETLA	NGT 8 52803	439
13	PENN STATE UNIV	D HOLLAND	HQ	D BURROWS	NGT 51125	456
13	PENN STATE UNIV	D HOLLAND	HQ	J E NEFF	NGT 51406	457

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13	PENN STATE UNIV	H TRINH	MSFC	W E ANDERSON	NAG 8 1398	453
13	PENN STATE UNIV	J S LING	LERC	J M TAZBELL	NAG 3 1871	449
13	PENN STATE UNIV	L J EARLY	GSFC	J D RUSSELL	NAG 5 5015	452
13	PENN STATE UNIV	M M MELLOTT	GSFC	D L CROSKEY	NAG 5 6197	452
13	PENN STATE UNIV	R H PLESS	GSFC	T J KANE	NAG 5 5035	452
13	PENN STATE UNIV	W B JOHNSON	GSFC	J D MITCHELL	NAG 5 5136	452
13	PENN STATE UNIV	W GURKIN	GSFC	D BURROWS	NAG 5 5093	452
13	POLYTECH INST OF NY	R F BENSON	GSFC	S P KUO	NAG 5 1051	389
13	POLYTECH INST OF NY	R G SEASHOLTZ	LERC	M V OTUGEN	NAG 3 1690	389
13	PRAIRIE VIEW A&M UNIV	C R MCCREIGHT	ARC	R T WILKINS	NAG 2 1154	481
13	PRAIRIE VIEW A&M UNIV	H NEEDLEMAN	GSFC	R WILKINS	NAG 5 5130	481
13	PRAIRIE VIEW A&M UNIV	W D HARWELL	JSC	W HARWELL	NAG 9 631	481
13	PRINCETON UNIV	G LEVY	HQ	D T WILKENSON	NAGW 1482	359
13	PRINCETON UNIV	P RHODES	MSFC	D A SAVILLE	NAG 8 1157	359
13	PRINCETON UNIV	W B JOHNSON	GSFC	E B JENKINS	NAG 5 616	358
13	PURDUE UNIV	J S LING	LERC	D A BASARAN	NAG 3 1860	226
13	RENSSELAER POLYTECH INST	D O FRAZIER	MSFC	M E GLICKMAN	NCC 8 54	391
13	RHODES COLLEGE	W V JONES	HQ	R M MACQUEEN	NAGW 4671	473
13	RICE UNIV	B M CARPENTER	HQ	R H HAUGE	NAGW 2845	484
13	RICE UNIV	D HOLLAND	HQ	P H REITT	NGT 51382	485
13	RICE UNIV	E C WHIPPLE	HQ	R A WOLF	NAGW 2826	484
13	RICE UNIV	E C WHIPPLE	HQ	R A WOLF	NAGW 4035	484
13	RICE UNIV	G FISHMAN	MSFC	A W CRIPER	NGT 8 52814	486
13	RICE UNIV	J BOHLIN	GSFC	D A WOLF	NAG 5 4267	483
13	RICE UNIV	J BOHLIN	GSFC	D R TOFFOLETTO	NAG 5 4726	483
13	RICE UNIV	J GRAF	JSC	F K TITTEL	NAG 9 838	484
13	RICE UNIV	J GREBOWSKY	GSFC	D W HILL	NAG 5 4822	483
13	RICE UNIV	M H ACUNA	GSFC	P A CLOUTIER	NAG 5 1195	482
13	RICE UNIV	M L GOLDSTEIN	GSFC	P H REIFF	NAG 5 2215	483
13	RICE UNIV	M M MELLOTT	HQ	K SMITH	NAGW 4004	484
13	RICE UNIV	M M MELLOTT	HQ	P H REIFF	NAGW 1655	484
13	RICE UNIV	MBURRELL	GSFC	P A CLOUTIER	NGT 51186	485
13	RICE UNIV	R A HOFFMAN	GSFC	P H REIFF	NAG 5 3216	483
13	RICE UNIV	T MOORE	MSFC	T W HILL	NGT 8 52834	486
13	ROANOKE COLLEGE	H NEEDLEMAN	GSFC	C TASCO	NAG 5 5053	532
13	ROANOKE COLLEGE	M FORMAN	HQ	C H TSAO	NAGW 4639	532
13	RUTGERS STATE UNIV - PISCATAWAY	E J WEILER	HQ	D L JOSEPH	NAGW 5045	362
13	RUTGERS STATE UNIV - PISCATAWAY	R V STACHNIK	HQ	C JOSEPH	NAGW 4900	362
13	RUTGERS STATE UNIV OF NJ NEW BRUNS	H C BRINTON	HQ	R H HEWINS	NAGW 3391	363
13	SAINT JOHN FISHER COLLEGE	F SIX	MSFC	W LEWIS	NAG 8 1002	393
13	SAN FRANCISCO STATE UNIV	P ROGERS	HQ	G W MARCY	NAGW 5125	59
13	SAN JOSE STATE UNIV	J VALENTIN	ARC	J F BECKER	NCC 2 5132	61
13	SOUTH DAKOTA SCH OF MINES & TECH	I L KRAINSKY	LERC	A PETUKHOV	NAG 3 1680	471
13	SOUTHERN UNIV & A&M COLLEGE	A DOUGLAS	GSFC	C H YANG	NAG 5 3660	246
13	SOUTHERN UNIV & A&M COLLEGE	D K RUSSELL	HQ	D BAGOYOKO	NGT 90266	247
13	SOUTHERN UNIV & A&M COLLEGE	H C NEEDLEMAN	GSFC	A R FAZELY	NAG 5 5066	246
13	SOUTHERN UNIV & A&M COLLEGE	R LAWRENCE	GSFC	D BAGAYOKO	NGT 5 90015	247
13	STANFORD UNIV	B S SINGH	LERC	E G SHAQTEH	NAG 3 1843	64
13	STANFORD UNIV	B S SINGH	LERC	J A LIPA	NAG 3 1902	64
13	STANFORD UNIV	B S SINGH	LERC	J A LIPA	NAG 3 1940	64
13	STANFORD UNIV	D A HOLLAND	HQ	J LIPA	NGT 51153	71
13	STANFORD UNIV	D D ROSS	LERC	D A RUFF	NAG 3 1887	64
13	STANFORD UNIV	D K RUSSELL	HQ	A WALKER	NGT 70364	71
13	STANFORD UNIV	H C NEEDLEMAN	GSFC	P F MICHELSON	NAG 5 5109	66
13	STANFORD UNIV	J BOHLIN	GSFC	D S INAN	NAG 5 4554	66
13	STANFORD UNIV	J D BOHLIN	HQ	U S INAN	NAGW 5156	68
13	STANFORD UNIV	J D BOHLIN	HQ	V PETROSIAN	NAGW 1976	67
13	STANFORD UNIV	J GERVIN	GSFC	R H SCHERRER	NAS 5 30386	68
13	STANFORD UNIV	J M BOYCE	HQ	G TYLER	NAGW 4878	68
13	STANFORD UNIV	J WILLETT	GSFC	D S INAN	NAG 5 3637	65
13	STANFORD UNIV	L TAFF	HQ	J A LIPA	NAGW 4863	68
13	STANFORD UNIV	M KAPLAN	HQ	P E MICHELSON	NAGW 4746	67
13	STANFORD UNIV	M M MELLOTT	GSFC	D S INAN	NAG 5 6264	66
13	STANFORD UNIV	M M MELLOTT	HQ	U S INAN	NAGW 4738	67
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13	TUSKEGEE UNIV	V K RAWLIN	LERC	P K RAY	NAG 3 1388	5
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13	UNIV OF ALABAMA – HUNTSVILLE	H C NEEDLEMAN	GSFC	G N PENDLETON	NAG 5 5112	10
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13	UNIV OF ALABAMA – HUNTSVILLE	J R PRUITT	MSFC	J L HORWITZ	NGT 8 52833	15
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13	UNIV OF ALASKA – FAIRBANKS	M M MELLOTT	HQ	J D CRAVEN	NAGW 3436	20
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13	UNIV OF ALASKA – FAIRBANKS	R HOWARD	HQ	H C STENBAEK–NIELSEN	NAGW 4048	20
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13	UNIV OF CALIFORNIA – BERKELEY	E E MONTGOMERY	MSFC	C R PENNYPACKER	NAG 8 1201	79
13	UNIV OF CALIFORNIA – BERKELEY	G LESANE	HQ	R PACKARD	NGT 51269	85
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13	UNIV OF CALIFORNIA – LOS ANGELES	J BOHLIN	GSFC	D ASHOUR-ABDALLA	NAG 5 4683	98
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13	UNIV OF CALIFORNIA – LOS ANGELES	J BOHLIN	GSFC	K K KHURANA	NAG 5 3722	97
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13	UNIV OF CALIFORNIA – LOS ANGELES	J D BOHLIN	GSFC	D ASHOUR-ABDALLA	NAG 5 4030	97
13	UNIV OF CALIFORNIA – LOS ANGELES	J D BOHLIN	GSFC	D ASHOUR-ABDALLA	NAG 5 4067	97
13	UNIV OF CALIFORNIA – LOS ANGELES	J D BOHLIN	GSFC	D L PRITCHETT	NAG 5 4339	98
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13	UNIV OF CALIFORNIA – LOS ANGELES	J F WILLETT	HQ	G LE	NAGW 4899	103
13	UNIV OF CALIFORNIA – LOS ANGELES	J GREBOWSKY	GSFC	D K KHURANA	NAG 5 4661	98
13	UNIV OF CALIFORNIA – LOS ANGELES	J GREBOWSKY	GSFC	D M THORNE	NAG 5 4680	98
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13	UNIV OF CALIFORNIA – LOS ANGELES	M ACUNA	GSFC	M G KIVELSON	NAG 5 1167	95
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13	UNIV OF CALIFORNIA – LOS ANGELES	R A HOFFMAN	HQ	P L PRITCHETT	NAGW 4532	102
13	UNIV OF CALIFORNIA – LOS ANGELES	R HOFFMAN	HQ	M ASHOUR-ABDALLA	NAGW 4553	102

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13	UNIV OF CALIFORNIA - LOS ANGELES	T J BIRMINGHAM	GSFC	F V CORONITI	NAG 5 3235	96
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19	STEVENS INST OF TECH	D MENCHAN	GSFC	T WILLIAMS	NCC 5 224	363
19	STEVENS INST OF TECH	F SIX	MSFC	W SCHWARZ	NAG 8 1102	363
19	SYRACUSE UNIV	C K GARY	ARC	Q W SONG	NAG 2 1084	399
19	THE CATHOLIC UNIV OF AMERICA	D K RUSSELL	HQ	F C BRUHWEILER	NGT 70371	164
19	UNIV HOUSTON	C P LI	JSC	D E FITZGIBBON	NAG 9 896	495
19	UNIV HOUSTON	C R TALLEY	MSFC	J M FRIEDMAN	NAG 8 1363	494
19	UNIV HOUSTON	F CHANG-DIAZ	JSC	D BERING	NAG 9 904	495
19	UNIV OF MINN – MINNEAPOLIS–ST PAUL	C TALLEY	MSFC	J DERBY	NAG 8 1258	330
19	UNIV OF MINN – MINNEAPOLIS–ST PAUL	E STANSBERY	JSC	R O PEPIN	NAG 9 863	330
19	UNIV OF MINN – MINNEAPOLIS–ST PAUL	R J MACDOWELL	GSFC	K GOETZ	NAS 5 32994	331
19	UNIV	D POWELL	JSC	B BUTLER	NAG 9 865	498
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19	UNIV OF ALABAMA – BIRMINGHAM	C R TALLEY	MSFC	J B ANDREWS	NAG 8 1228	7
19	UNIV OF ALABAMA – BIRMINGHAM	F R SZOFRAN	MSFC	R N ANDREWS	NAS 8 40429	7
19	UNIV OF ALABAMA – BIRMINGHAM	J X HO	MSFC	C D SMITH	NAG 8 1193	7
19	UNIV OF ALABAMA – BIRMINGHAM	T DELOACH	MSFC	J B ANDREWS	NAS 8 39717	7
19	UNIV OF ALABAMA – BIRMINGHAM	T Y MILLER	MSFC	L J DELVCAS	NAG 8 1162	7
19	UNIV OF ALABAMA – HUNTSVILLE	A L FRIPP	LARC	A NADARAJAH	NAG 1 1534	8
19	UNIV OF ALABAMA – HUNTSVILLE	C R TALLEY	MSFC	D FEDOSEYER	NAG 8 1229	11
19	UNIV OF ALABAMA – HUNTSVILLE	J C DUH	LERC	J D ALEXANDER	NAG 3 1740	8
19	UNIV OF ALABAMA – HUNTSVILLE	J C DUH	LERC	J D ALEXANDER	NAG 3 1864	8
19	UNIV OF ALABAMA – HUNTSVILLE	J SWANK	GSFC	J PARADUS	NAG 5 3271	9
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19	UNIV OF ALABAMA – HUNTSVILLE	P A CURRERI	MSFC	W F KAUKLER	NAS 8 40185	13
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19	UNIV OF ALABAMA – UNIV	T DE LOACH	MSFC	D M STEFANESCU	NAS 8 39715	17
19	UNIV OF ALASKA – FAIRBANKS	R H THOMAS	HQ	C E MAYER	NAS 3 26401	20
19	UNIV OF ARIZONA	A T CHAI	LERC	J JACOBS	NAG 3 1869	28
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19	UNIV OF ARIZONA	J A NUTH	HQ	C Y FAN	NAGW 2249	35
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19	UNIV OF ARIZONA	J A NUTH	HQ	J I LUNINE	NAGW 2250	35
19	UNIV OF ARIZONA	J A NUTH	HQ	L L HOOD	NAGW 2315	35
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19	UNIV OF ARKANSAS – LITTLE ROCK	F SIX	MSFC	T VISWANATHAN	NAG 8 276	42
19	UNIV OF ARK MAIN CAMP – FAYETTEVILLE	A TUYAHOV	GSFC	W LIMP	NAG 5 4718	43
19	UNIV OF CALIFORNIA – BERKELEY	J A NUTH III	HQ	F H SHU	NAGW 3595	80
19	UNIV OF CALIFORNIA – BERKELEY	J A NUTH	HQ	S W STAHLER	NAGW 3107	80
19	UNIV OF CALIFORNIA – BERKELEY	K W OGLIVIE	GSFC	R P LIN	NAG 5 2815	74
19	UNIV OF CALIFORNIA – BERKELEY	W B JOHNSON	GSFC	C W CARLSON	NAG 6 10	79
19	UNIV OF CALIFORNIA – IRVINE	L E MAULDRIN	LARC	R CICERONE	NAS 1 19155	94
19	UNIV OF CALIFORNIA – LOS ANGELES	C R TALLEY	MSFC	A J ARDELL	NAG 8 1236	99
19	UNIV OF CALIFORNIA – LOS ANGELES	D F SHAO	LERC	V K DHIR	NAG 3 1832	95
19	UNIV OF CALIFORNIA – LOS ANGELES	H C BRINTON	HQ	P M DAVIS	NAGW 3468	101
19	UNIV OF CALIFORNIA – LOS ANGELES	H C BRINTON	HQ	R THORNE	NAGW 3590	101
19	UNIV OF CALIFORNIA – LOS ANGELES	J A NUTH	HQ	B M ZUCKERMAN	NAGW 2270	100
19	UNIV OF CALIFORNIA – LOS ANGELES	J A NUTH	HQ	J F KERRIDGE	NAGW 3064	100
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19	UNIV OF CALIFORNIA - LOS ANGELES	J NUTH	HQ	A E RUBIN	NAGW 5099	103
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21	CALIFORNIA STATE UNIV – NORTHRIDGE	W J WAGNER	HQ	A F RATCLIFFE	NAGW 4954	56

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21	COLLEGE OF WILLIAM AND MARY	S L PADULA	LARC	R K KINCAID	NAG 1 1783	520
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21	LAMAR UNIV	D P BLANCHARD	JSC	A V MURALI	NAG 9 772	480
21	MOREHOUSE COLLEGE	R LAWRENCE	GSFC	B MARTIN	NGT 5 90061	195
21	MORGAN STATE UNIV	B GUENTHER	GSFC	J SMID	NAG 5 4401	260
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21	UNIV OF CALIFORNIA – BERKELEY	M WEISLOGEL	LERC	P CONCUS	NCC 3 329	84
21	UNIV OF CALIFORNIA – BERKELEY	S LAU	ARC	L A ZALEH	NCC 2 972	83
21	UNIV OF ILLINOIS AT URBANA–CHAMPAIGN	S GOKOGLU	LERC	J D BUCKMASTER	NAG 3 1704	218
21	UNIV OF MICHIGAN – ANN ARBOR	J L THOMAS	LARC	B VAN LEER	NAG 1 869	315
21	UNIV OF NORTHERN COLORADO	D K RUSSELL	HQ	P C ISAACSON	NGT 90263	153
21	UNIV OF PUERTO RICO – MAYAGUEZ	M MATEU	GSFC	B RAMIREZ	NAG 5 3479	569
21	UNIV OF TEXAS – AUSTIN	R E SMITH	LARC	J KALLINDERIS	NAG 1 1459	500
21	UNIV OF TEXAS AT SAN ANTONIO	L ARMENDARIZ	JSC	M P BERRIOZABAL	NAG 9 950	513
21	WEIZMANN INST OF SCIENCE	J C SOUTH, JR.	LARC	A BRANDT	NAG 1 1823	572
22	APPALACHIAN STATE UNIV	T S ABBOTT	LARC	C R RUSSELL	NAG 1 1321	401
22	ARIZONA STATE UNIV	A VAZIRI	ARC	G M NIELSON	NAG 2 990	22
22	ARIZONA STATE UNIV	G A SOFFEN	GSFC	D COCHRAN	NGT 5 22	25
22	AUBURN UNIV	J HALE	MSFC	L MOORE	NAG 8 1019	3
22	AUBURN UNIV	M E JACKSON	MSFC	A S HODEL	NAG 8 1040	3
22	BOWIE STATE UNIV	W F TRUSZKOWESKI	GSFC	S SRIVASTAVA	NAG 5 2277	249
22	BROWN UNIV	A VAZIRI	ARC	A DAM	NAG 2 830	462
22	BROWN UNIV	M GERALD–YAMASAKI	ARC	A VAN DAM	NCC 2 5213	465
22	BUCKNELL UNIV	J E DORBAND	GSFC	M F ABURDENE	NAG 5 2509	443
22	CALIFORNIA INST OF TECH	H BURRITT	GSFC	S DJORGOVSKI	NAS 5 31348	51
22	CALIFORNIA INST OF TECH	J B HOFMAN	ARC	P MASSINA	NCC 2 954	51
22	CALIFORNIA INST OF TECH	J BREDEKAMP	GSFC	D L STERLING	NAG 5 4203	47
22	CALIFORNIA POLYTECH STATE U–SAN LUIS	R RAY	DFRC	T W CARPENTER	NAG 4 101	53
22	CALIFORNIA STATE UNIV – FRESNO	D K RUSSELL	HQ	A AUERNHEIMER	NGT 70412	54
22	CALIFORNIA STATE UNIV – LOS ANGELES	K GUPTA	DFRC	C WU	NAG 4 130	55
22	CALIFORNIA STATE UNIV – NORTHRIDGE	C C CORDOVA	DFRC	C CORDOVA	NAS 4 97052	56
22	CARNEGIE – MELLON UNIV	C HIX	JPL	A W MOORE	NGT 51701	445
22	CARNEGIE – MELLON UNIV	C HIX	JPL	M ERDMANN	NGT 51272	445
22	CARNEGIE – MELLON UNIV	C HIX	JPL	W WHITTAKER	NGT 51275	445
22	CARNEGIE – MELLON UNIV	D G SICKOREZ	JSC	D A POWERLAAN	NGT 9 1	446
22	CARNEGIE – MELLON UNIV	D HOLLAND	HQ	A MOORE	NGT 51654	445

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22	CARNEGIE - MELLON UNIV	J M VRANISH	GSFC	F PRINZ	NAG 5 1468	444
22	CARNEGIE - MELLON UNIV	M H SIMS	ARC	M HERBERT	NAG 2 1137	444
22	CARNEGIE - MELLON UNIV	S LAU	ARC	S F SMITH	NCC 2 976	445
22	CASE WESTERN RESERVE UNIV	M D BETHEA	LERC	G W ERNST	NCC 3 340	415
22	CENTRAL STATE UNIV - OHIO	G J FOLLEN	LERC	K D ZHGOSHA	NAG 3 1725	418
22	CENTRAL STATE UNIV - OHIO	J J PELOUCH	LERC	K DEZHGOSHA	NAG 3 1554	418
22	CITY UNIV OF NY CITY COLLEGE	J BENNETT	GSFC	S AUSTIN	NCC 5 98	371
22	CLARKSON UNIV	R K BOGUE	DFRC	M N GLAUSER	NCC 4 110	371
22	CLEMSON UNIV - CLEMSON	C MOBARRY	GSFC	W E LIGON	NAG 5 3835	467
22	CLEMSON UNIV - CLEMSON	G A SOFFEN	GSFC	W B LIGON	NGT 5 21	469
22	CLEMSON UNIV - CLEMSON	J R LEKASHMAN	ARC	R M GEIST	NAG 2 1107	467
22	CLEVELAND STATE UNIV	D RUSSELL	HQ	S MISRA	NGT 70396	421
22	CLEVELAND STATE UNIV	G FOLLEN	LERC	D SCHOCFFLER	NCC 3 461	420
22	CLEVELAND STATE UNIV	G FOLLEN	LERC	J SCOEFFER	NCC 3 572	421
22	COLLEGE OF WILLIAM AND MARY	C ELKS	LARC	D M NICOL	NAG 1 1746	520
22	COLLEGE OF WILLIAM AND MARY	D K RUSSELL	HQ	S FEYOCK	NGT 70306	521
22	COLLEGE OF WILLIAM AND MARY	D K RUSSELL	HQ	S PARK	NGT 70381	521
22	COLLEGE OF WILLIAM AND MARY	F O HUCK	LARC	S K PARK	NCC 1 258	521
22	COLLEGE OF WILLIAM AND MARY	F O HUCK	LARC	Z RAHMAN	NAG 1 1847	520
22	COLLEGE OF WILLIAM AND MARY	M STOUTSENBERGER	GSFC	S PARK	NGT 5 70003	521
22	COLORADO STATE UNIV	K A SMITH	LARC	J M BIEMAN	NAG 1 1461	127
22	CORNELL UNIV	R LAWRENCE	GSFC	K HOVER	NGT 5 90070	387
22	CORNELL UNIV	S LAU	ARC	F B SCHNEIDER	NAG 2 893	380
22	DARTMOUTH COLLEGE	T E HARNESS	ARC	D F KOTZ	NCC 2 849	350
22	DUKE UNIV	M MOORE	ARC	J B DUGAN	NGT 51313	403
22	ELIZABETH CITY STATE UNIV	J BENNETT	GSFC	L HAYDEN	NCC 5 121	403
22	EMORY UNIV	A C WOO	ARC	V S SUNDERAM	NAG 2 828	186
22	FAYETTEVILLE STATE UNIV	R LAWRENCE	GSFC	L EDWARDS	NGT 5 90055	404
22	FLA INTERNATIONAL UNIV	B L WHITE	HQ	N RISHE	NAGW 4080	166
22	FLA INTERNATIONAL UNIV	G BUCKINGHAM	KSC	J A JACKO	NGT10 52614	167
22	FLA INTERNATIONAL UNIV	GBUCKINGHAM	KSC	J JACKO	NAG10 229	167
22	GEORGE MASON UNIV	J J REHDER	LARC	T ARCISZEWSKI	NAG 1 1929	522
22	GEORGE MASON UNIV	W CAMPBELL	GSFC	P WANG	NAG 5 4868	523
22	GEORGE WASHINGTON UNIV	G A SOFFEN	GSFC	M H LOEW	NGT 5 30	160
22	GEORGIA INST OF TECH	A W STOFFEL	GSFC	C M MITCHELL	NAG 5 2227	188
22	GEORGIA INST OF TECH	C E MOORE	MSFC	J D FOLEY	NAG 8 1155	189
22	GEORGIA INST OF TECH	D HOLLAND	HQ	K SCHWAN	NGT 51154	191
22	GEORGIA INST OF TECH	D K RUSSELL	HQ	L HOWARD	NGT 90277	192
22	GEORGIA INST OF TECH	F J MONTEGANI	LERC	E W ZEGURA	NGT 3 52329	193
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22	GEORGIA INST OF TECH	G H MUCKLOW	HQ	K SCHWAN	NAGW 3886	190
22	GEORGIA INST OF TECH	P SMITH	HQ	J I CRAIG	NGT 51250	192
22	GEORGIA INST OF TECH	W J POTTER	GSFC	C M MITCHELL	NAG 5 2226	188
22	GEORGIA INST OF TECH	W TRUSZKOWSKI	GSFC	C MITCHELL	NAG 5 3356	189
22	HOPE COLLEGE	D E ECKHARDT	LARC	M J JIPPING	NAG 1 1480	313
22	HOUSTON COMM COLLEGE	R BURKE	JSC	G MORENO	NCC 9 28	480
22	HOWARD UNIV	J N BRUNER	GSFC	R J LEACH	NAG 5 2904	161
22	HOWARD UNIV	J N BRUNER	GSFC	R J LEACH	NAG 5 3156	161
22	HOWARD UNIV	J SWANK	GSFC	A MARSCHER	NAG 5 3921	161
22	ILLINOIS INST OF TECH	M A JONES	HQ	I DOBBINS	NGT 90273	206
22	INDIANA UNIV - BLOOMINGTON	M MEYER	HQ	J M HAYES	NAGW 5107	224
22	IOWA STATE UNIV	J PURKEN	DFRC	P LU	NCC 4 109	232
22	IOWA STATE UNIV	J R FISCHER	GSFC	E S TAKLE	NAG 5 2491	231
22	IOWA STATE UNIV	M H SIMS	ARC	G THOMAS	NCC 2 5216	232
22	JACKSON STATE UNIV	A T JOYCE	SSC	W G BROWN	NAG13 32	333
22	JACKSON STATE UNIV	E LUCIER	HQ	B LUCAS	NGT 30273	333
22	KENT STATE UNIV	B V NGUYEN	LERC	H PEYRAVI	NAG 3 1810	422
22	KENT STATE UNIV	PHUNTER	HQ	J POTTER	NGT 51161	423
22	LOUISIANA STATE UNIV - BATON ROUGE	A JOYCE	SSC	D L CARVER	NGT 51015	244
22	LOUISIANA STATE UNIV - BATON ROUGE	A JOYCE	SSC	D L CARVER	NGT 51214	244
22	LOUISIANA STATE UNIV - BATON ROUGE	R S MCGINNIS	HQ	N LAM	NAGW 4221	243
22	MARQUETTE UNIV	J R FISCHER	GSFC	X FENG	NAG 5 2199	557
22	MASSACHUSETTS INST OF TECH	D L KAO	ARC	R HAIMES	NCC 2 985	305
22	MASSACHUSETTS INST OF TECH	K GUPTA	DFRC	J PERAIRE	NAG 4 105	294
22	MASSACHUSETTS INST OF TECH	L TOBIAS	ARC	A R ODONI	NAG 2 1088	292

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22	MASSACHUSETTS INST OF TECH	Y K LIU	ARC	R L RIVEST	NAG 2 1136	293
22	MICHIGAN STATE UNIV	A HUSAIN	NMO	M MOCH	NCC 7 2	313
22	MICHIGAN STATE UNIV	C R MERCER	LERC	A K JAIN	NAG 3 1749	313
22	MICHIGAN STATE UNIV	D K RUSSELL	HQ	B H CHENG	NGT 70376	314
22	MICHIGAN STATE UNIV	J R FISCHER	GSFC	R F STEIN	NAG 5 2489	313
22	MORGAN STATE UNIV	G R BAKER	GSFC	E C HAMMOND JR	NGT 90236	260
22	MORGAN STATE UNIV	J BENNETT	GSFC	W LUPTON	NCC 5 122	260
22	MORGAN STATE UNIV	W F TRUSZKOWSKI	GSFC	J SMID	NCC 5 127	260
22	MORRIS BROWN COLLEGE	A C BEAM	MSFC	F I OKOH	NAG 8 1169	195
22	NAVAJO COMM COLLEGE	L K ALDERETE	ARC	A SAM	NAG 2 6012	26
22	NEW MEXICO HIGHLANDS UNIV	T MOSE	DFRC	J P CLARK	NAG 4 139	364
22	NORTH CAROLINA A&T STATE UNIV	W TRUSZKOWSKI	GSFC	A ESTERLINE	NAG 5 4102	405
22	NORTH CAROLINA STATE UNIV	D E ECKHARDT	LARC	M A VOUK	NAG 1 983	407
22	NORTHWESTERN UNIV	E LUCIER	HQ	P SCHEUERMANN	NGT 30244	209
22	NORTHWESTERN UNIV	J R LEKASHMAN	ARC	P SCHEUERMANN	NAG 2 846	207
22	OLD DOMINION UNIV	C L CARPENTER	LARC	M D MEYER	NGT 1 52113	531
22	OLD DOMINION UNIV	D E ECKHARDT	LARC	C D WILD	NAG 1 439	527
22	OLD DOMINION UNIV	D E ECKHARDT	LARC	C WILD	NAG 1 1426	527
22	OLD DOMINION UNIV	D K RUSSELL	HQ	J L SCHWING	NGT 70382	531
22	OLD DOMINION UNIV	M D SALAS	LARC	K MALY	NAG 1 1550	528
22	OLD DOMINION UNIV	N D MURRAY	LARC	K MALY	NAG 1 908	527
22	OLD DOMINION UNIV	R W WILLS	LARC	D MUKKAMALA	NAG 1 1853	528
22	OLD DOMINION UNIV	W H BRYANT	LARC	D MALY	NAG 1 1745	528
22	OLD DOMINION UNIV	W H BRYANT	LARC	D MUKKAMALA	NAG 1 1747	528
22	OLD DOMINION UNIV	W H BRYANT	LARC	R MUKKAMALA	NAG 1 1114	527
22	OLD DOMINION UNIV	W H BRYANT	LARC	R MUKKAMALA	NAG 1 1690	528
22	OREGON STATE UNIV	L B HOFMAN	ARC	C M PANCAKE	NAG 2 1123	439
22	OREGON STATE UNIV	M J LEON	ARC	R D DRYDEN	NAG 2 1143	439
22	PENN STATE UNIV	A H NULL	ARC	R KASTURI	NCC 2 916	455
22	PENN STATE UNIV	L S TONE	ARC	R KASTRUI	NAG 2 1152	448
22	PRAIRIE VIEW A&M UNIV	J BENNETT	GSFC	J R WILLIAMS	NCC 5 115	482
22	PURDUE UNIV	D HOLLAND	HQ	B BHARGAVA	NGT 51284	228
22	PURDUE UNIV	G H MUCKLOW	HQ	M F BAUMGARDNER	NAGW 3862	227
22	RENSSELAER POLYTECH INST	D K RUSSELL	HQ	B SZYMANSKI	NGT 70334	392
22	RICE UNIV	J R FISCHER	GSFC	K KENNEDY	NAG 5 2736	483
22	RUTGERS STATE UNIV OF NJ NEW BRUNS	S LAU	ARC	G M HOMSY	NAG 2 668	363
22	RUTGERS STATE UNIV OF NJ NEW BRUNS	S LAU	ARC	T ELLMAN	NCC 2 802	363
22	RUTGERS STATE UNIV OF NJ NEW BRUNS	T A LASINSKI	ARC	D SILVER	NAG 2 829	363
22	SALISH KOOTENAI COLLEGE	E L DUKE	DFRC	J GOBERT	NAG 4 128	344
22	SAN FRANCISCO STATE UNIV	P R GRAMS	ARC	P SHAHNASSER	NCC 2 5180	59
22	SANTA CLARA UNIV	T GRANT	ARC	Q LI	NCC 2 5120	62
22	SOUTH CAROLINA STATE UNIV	J BENNETT	GSFC	D K WALTER	NCC 5 116	470
22	SOUTHERN UNIV & A&M COLLEGE	D F NOGA	LERC	D MOREMAN	NAG 3 2076	246
22	SOUTHERN UNIV & A&M COLLEGE	G S LEE	ARC	S K TRIVEDI	NAG 2 1159	245
22	SOUTHERN UNIV & A&M COLLEGE	H L THEISS	HQ	E W HINDS	NAGW 4013	246
22	SOUTHERN UNIV & A&M COLLEGE	R R DAPICE	ARC	C DEBASSONET	NAG 2 1162	245
22	STANFORD UNIV	A A VAZIRI	ARC	L HESSELINK	NAG 2 911	64
22	STANFORD UNIV	D G SOCKOREZ	JSC	O KHATIB	NGT 9 6	72
22	STANFORD UNIV	D KORSMEYER	ARC	L HESSELINK	NCC 2 5211	70
22	STANFORD UNIV	E M HUFF	ARC	T H MENG	NAG 2 1065	64
22	STANFORD UNIV	K SWANSON	ARC	B CANTWELL	NCC 2 5202	70
22	STANFORD UNIV	M H SIMS	ARC	S M ROCK	NCC 2 1004	69
22	STANFORD UNIV	S LAU	ARC	D L DILL	NAG 2 891	63
22	STANFORD UNIV	S LAU	ARC	L J LEIFER	NCC 2 951	69
22	STANFORD UNIV	S LAU	ARC	Z MANNA	NAG 2 892	63
22	STANFORD UNIV	W J FEIEREISEN	ARC	J H FERZIGER	NCC 2 899	69
22	STATE UNIV OF NY – BUFFALO	D VAN DREI	LERC	P DOWD	NAG 3 1812	394
22	STATE UNIV OF NY – STONY BROOK	M YAMASAKI	ARC	A KAUFMAN	NCC 2 5231	398
22	TENNESSEE STATE UNIV	J BENNETT	GSFC	W SMITH	NCC 5 96	474
22	TENNESSEE STATE UNIV	K BALLARD	KSC	S SINGH DEVGAN	NAG10 217	474
22	TENNESSEE STATE UNIV	K J SWANSON	ARC	G W HENRY	NCC 2 977	474
22	TENNESSEE STATE UNIV	S LAU	ARC	G W HENRY	NCC 2 883	474
22	TEXAS A&M UNIV	G A SOFFEN	GSFC	J C LIU	NGT 5 7	492
22	TEXAS A&M UNIV	J DARDEN	MSFC	A B PALAZZOLO	NAG 8 1131	489
22	TEXAS A&M UNIV	R SHULER	JSC	D R AVRESLY	NAG 9 798	489

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22	THE UNIV OF CENTRAL FLORIDA	D HOLLAND	HQ	D MOSHELL	NGT 51402	174
22	THE UNIV OF CENTRAL FLORIDA	T BARTH	KSC	W W SWART	NAG10 141	173
22	TUFTS UNIV	J F DOWDY	MSFC	K P LENTL	NAG 8 1311	308
22	TULANE UNIV	J R FISCHER	GSFC	B P BUCKLES	NAG 5 2216	247
22	TUSKEGEE UNIV	D PEARSON	MSFC	C V DORESWAMY	NAG 8 1141	5
22	UNIV HOUSTON	C CULBERT	JSC	R B LOFTIN	NAG 9 713	494
22	UNIV HOUSTON	L WEBSTER	JSC	D JEN-GWO CHEN	NAG 9 888	495
22	UNIV HOUSTON	R J SAVELY	JSC	R B LOFTIN	NAG 9 930	495
22	UNIV OF MARYLAND AT BALTIMORE	J R LEKASHMAN	ARC	E L MILLER	NAG 2 1094	260
22	UNIV OF MINN - MINNEAPOLIS-ST PAUL	A C WOO	ARC	Y SAAD	NAG 2 904	328
22	UNIV OF MINN - MINNEAPOLIS-ST PAUL	J BREDEKAMP	GSFC	P M HUMPHREYS	NAG 5 3998	329
22	UNIV OF MINN - MINNEAPOLIS-ST PAUL	J R LEKASHMAN	ARC	M T O	NAG 2 1151	328
22	UNIV OF TEXAS-PAN AMERICAN	N G ROBERTSON	JSC	S E DAVIDSON	NAG 9 767	497
22	UNIV OF ALABAMA - BIRMINGHAM	D K RUSSELL	HQ	W JONES	NGT 70397	8
22	UNIV OF ALABAMA - HUNTSVILLE	J BREDEKAMP	GSFC	D G RICHARDS	NAG 5 4003	10
22	UNIV OF ALABAMA - HUNTSVILLE	R J KOCZOR	MSFC	S J GRAVES	NAS 8 38663	13
22	UNIV OF ALABAMA - HUNTSVILLE	R KREIDER	GSFC	S GRAVES	NAG 5 4913	10
22	UNIV OF ALABAMA - HUNTSVILLE	R S MCGINNIS	HQ	S GRAVES	NAGW 4259	13
22	UNIV OF ALABAMA - UNIV	U HUETER	MSFC	J A MARTIN	NAG 8 1106	17
22	UNIV OF ARIZONA	G J FOLLEN	LERC	R SCHICTING	NCC 3 452	39
22	UNIV OF ARIZONA	H BRINTON	HQ	R GREELEY	NAGW 4403	37
22	UNIV OF ARIZONA	J BREDEKAMP	GSFC	D MERENYI	NAG 5 4001	31
22	UNIV OF CALIFORNIA - BERKELEY	D J KORSMEYER	ARC	R F MALINA	NCC 2 902	83
22	UNIV OF CALIFORNIA - BERKELEY	D J KORSMEYER	ARC	R F MALINA	NCC 2 966	83
22	UNIV OF CALIFORNIA - BERKELEY	G ASRAR	HQ	A JUELS	NGT 30107	84
22	UNIV OF CALIFORNIA - BERKELEY	J BREDEKAMP	GSFC	D SILK	NAG 5 3941	77
22	UNIV OF CALIFORNIA - BERKELEY	J N CUZZI	ARC	A R NEWTON	NCC 2 999	83
22	UNIV OF CALIFORNIA - BERKELEY	M M SIMS	ARC	L W STARK	NAG 2 1135	73
22	UNIV OF CALIFORNIA - BERKELEY	R S MCGINNIS	HQ	M STONEBRAKER	NAGW 4260	81
22	UNIV OF CALIFORNIA - BERKELEY	S LAU	ARC	A NEWTON	NCC 2 5227	84
22	UNIV OF CALIFORNIA - IRVINE	D K RUSSELL	HQ	D RICHARDSON	NGT 70352	94
22	UNIV OF CALIFORNIA - IRVINE	J DORBAND	GSFC	I SCHERSON	NAG 5 3692	93
22	UNIV OF CALIFORNIA - LOS ANGELES	G H MUCKLOW	HQ	R R MUNTZ	NAGW 3915	101
22	UNIV OF CALIFORNIA - LOS ANGELES	J R FISCHER	GSFC	R MUNTZ	NAG 5 2225	96
22	UNIV OF CALIFORNIA - LOS ANGELES	R S MCGINNIS	HQ	R MUNTZ	NAGW 4242	102
22	UNIV OF CALIFORNIA - SAN DIEGO	D A HOLLAND	HQ	R C PUETTER	NAGW 4726	112
22	UNIV OF CALIFORNIA - SAN DIEGO	J BREDEKAMP	GSFC	D C PUETTER	NAG 5 3944	108
22	UNIV OF CALIFORNIA - SAN DIEGO	R A COPPENBARGER	ARC	R JAIN	NCC 2 792	113
22	UNIV OF CALIFORNIA - SANTA BARBARA	G H MUCKLOW	HQ		NAGW 3951	118
22	UNIV OF CALIFORNIA - SANTA BARBARA	G H MUCKLOW	HQ	T R SMITH	NAGW 3888	118
22	UNIV OF CALIFORNIA - SANTA BARBARA	J R FISCHER	GSFC	Z WAN	NAG 5 2485	116
22	UNIV OF CALIFORNIA - SANTA CRUZ	A VAZIRI	ARC	J WILHELMS	NAG 2 991	120
22	UNIV OF CALIFORNIA - SANTA CRUZ	A VAZIRI	ARC	J WILHELMS	NCC 2 717	122
22	UNIV OF CALIFORNIA - SANTA CRUZ	G D YAMASKI	ARC	A PANG	NCC 2 5207	122
22	UNIV OF CALIFORNIA - SANTA CRUZ	M G YAMASAKI	ARC	A PANG	NCC 2 5176	122
22	UNIV OF COLORADO - BOULDER	G H MUCKLOW	HQ	K E SIMMONS	NAGW 3887	144
22	UNIV OF COLORADO - BOULDER	J BREDEKAMP	GSFC	D M ETTER	NAG 5 3997	136
22	UNIV OF COLORADO - BOULDER	K R MCDONALD	GSFC	W J EMERY	NAG 5 2577	133
22	UNIV OF COLORADO - BOULDER	R E GILLIAN	LARC	C FARHAT	NAG 1 1873	131
22	UNIV OF COLORADO - BOULDER	R S MCGINNIS	HQ	W EMERY	NAGW 4230	144
22	UNIV OF COLORADO - BOULDER	S LAU	ARC	R KING	NAG 2 862	131
22	UNIV OF FLORIDA	R S MCGINNIS	HQ	T J JOHNSON	NAGW 4258	177
22	UNIV OF HAWAII - MANOA	J R FISCHER	GSFC	D Y YUN	NAG 5 2486	198
22	UNIV OF HAWAII - MANOA	M MODIN	ARC	T N NEILSON	NAS 2 14059	202
22	UNIV OF HOUSTON - CLEAR LAKE	R B MACDONALD	JSC	E T DICKERSON	NCC 9 16	499
22	UNIV OF HOUSTON - CLEAR LAKE	R T SAVELY	JSC	S L GERHART	NCC 9 30	499
22	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	A W STOFFEL	GSFC	P M JONES	NAG 5 2244	219
22	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	C CARLISLE	GSFC	M FOLK	NAG 5 2040	218
22	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	C HICKS	JPL	D A REED	NGT 51399	222
22	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	D G SICKOREZ	JSC	D E GOLDBERG	NGT 9 4	223
22	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	J BREDEKAMP	GSFC	M MCGRATH	NAG 5 4228	220
22	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	J R FISCHER	GSFC	M L NORMAN	NAG 5 2493	219
22	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	J R FISCHER	GSFC	P E SAYLOR	NAG 5 2201	218
22	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	K A SMITH	LARC	R K IYER	NAG 1 613	217

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22	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	M MOORE	ARC	D A REED	NGT 51023	222
22	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	R L JONES.	LARC	W H SANDERS	NAG 1 1782	217
22	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	R S MCGINNIS	HQ	M FOLK	NAGW 4244	221
22	UNIV OF IOWA	P SMITH	HQ	T RUS	NGT 51321	236
22	UNIV OF MARYLAND - COLLEGE PARK	C A ROUFF	GSFC	B SHNEIDERMAN	NAG 5 2895	265
22	UNIV OF MARYLAND - COLLEGE PARK	C Y CHEUNG	GSFC	N ROUSSOPOULOS	NAG 5 2926	265
22	UNIV OF MARYLAND - COLLEGE PARK	E J PRIOR	LARC	J H SALTZ	NAG 1 1485	261
22	UNIV OF MARYLAND - COLLEGE PARK	E LUCIER	HQ	H SOMET	NGT 30242	277
22	UNIV OF MARYLAND - COLLEGE PARK	J BREDEKAMP	GSFC	D C GOODRICH	NAG 5 4313	268
22	UNIV OF MARYLAND - COLLEGE PARK	J R FISCHER	GSFC	L DAVIS	NAG 5 2482	264
22	UNIV OF MARYLAND - COLLEGE PARK	R G WILMOTH	LARC	J SALTZ	NAG 1 1560	261
22	UNIV OF MARYLAND - COLLEGE PARK	R PAJERSKI	GSFC	V R BASILI	NSG 5123	278
22	UNIV OF MARYLAND - COLLEGE PARK	R S PAJERSKI	GSFC	V R BASILI	NCC 5 170	276
22	UNIV OF MARYLAND BALTIMORE COUNTY	D A ROBERTS	GSFC	D S EBERT	NAG 5 2893	278
22	UNIV OF MARYLAND BALTIMORE COUNTY	D K RUSSELL	HQ	E BAKER	NGT 90260	279
22	UNIV OF MARYLAND BALTIMORE COUNTY	M S BURRELL	GSFC	L M HAYDEN	NGT 5 48	279
22	UNIV OF MARYLAND BALTIMORE COUNTY	W F TRUSZKOWSKI	GSFC	H H EMVRIAN	NAG 5 2855	278
22	UNIV OF MASSACHUSETTS - AMHERST	G LESANE	HQ	W B CROFT	NGT 70358	311
22	UNIV OF MASSACHUSETTS	A JOYCE	SSC	G G GRINSTEIN	NGT 51217	309
22	UNIV OF MEMPHIS	D K RUSSELL	HQ	M GARZON	NGT 70369	475
22	UNIV OF MICHIGAN - ANN ARBOR	A L WHITE	LARC	K G SHIN	NAG 1 1220	315
22	UNIV OF MICHIGAN - ANN ARBOR	A L WHITE	LARC	K G SHIN	NAG 1 1493	315
22	UNIV OF MICHIGAN - ANN ARBOR	D K RUSSELL	HQ	S GREGERMAN	NGT 90262	325
22	UNIV OF MICHIGAN - ANN ARBOR	G BURKINGHAM	KSC	A PRAKASH	NGT10 52613	327
22	UNIV OF MICHIGAN - ANN ARBOR	J B WILLETT	HQ	M D BURRAGE	NAGW 4367	322
22	UNIV OF MISSOURI - SAINT LOUIS	D G SICKOREZ	JSC	C Z JANIKOW	NAG 9 847	338
22	UNIV OF NEBRASKA - LINCOLN	D HOLLAND	HQ	A SAMAL	NGT 51379	346
22	UNIV OF NEBRASKA - LINCOLN	D HOLLAND	HQ	S E REICHENBACH	NGT 51293	346
22	UNIV OF NEVADA - LAS VEGAS	J BREDEKAMP	GSFC	D LATIFI	NAG 5 3994	347
22	UNIV OF NORTH DAKOTA	D R PLUMER	LERC	M S ALI	NAG 3 1911	413
22	UNIV OF NORTHERN COLORADO	R LAWRENCE	GSFC	P ISAACSON	NGT 5 90057	153
22	UNIV OF NOTRE DAME	D FISHER	DFRC	R NELSON	NAG 4 123	229
22	UNIV OF NOTRE DAME	J R FISCHER	GSFC	P M KOGGE	NAG 5 2998	229
22	UNIV OF OREGON - EUGENE	K G STEVENS	ARC	A MALONY	NGT 51307	443
22	UNIV OF PITTSBURGH	R S MCGINNIS	HQ	R RYMON	NAGW 4224	460
22	UNIV OF RHODE ISLAND	G H MUCKLOW	HQ	P CORNILLION	NAGW 3890	466
22	UNIV OF SOUTH CAROLINA-COLUMBIA	J T LYNCH	HQ	J R ROSE	NGT 51315	470
22	UNIV OF SOUTHERN CALIFORNIA	H ASKHENES	GSFC	G A BEKEY	NGT 70290	126
22	UNIV OF SOUTHERN CALIFORNIA	H LUM	ARC	D W MIZELL	NCC 2 539	126
22	UNIV OF SOUTHERN CALIFORNIA	P E FRIEDLAND	ARC	S LAU	NAG 2 864	123
22	UNIV OF SOUTHERN MISSISSIPPI	D K RUSSELL	HQ	G H RAYBORN	NGT 70394	335
22	UNIV OF SOUTHERN MISSISSIPPI	F SIX	MSFC	J KOLIBAL	NGT 8 52807	335
22	UNIV OF TENNESSEE - KNOXVILLE	G J FOLLEN	LERC	J DOWGARRA	NAG 3 1573	475
22	UNIV OF TEXAS - ARLINGTON	E LUCIER	HQ	A K FUNG	NGT 30245	500
22	UNIV OF TEXAS - ARLINGTON	E PRIOR	LARC	S M YANG	NGT 50896	500
22	UNIV OF TEXAS - AUSTIN	D HOLLAND	HQ	R MOONEY	NGT 51332	508
22	UNIV OF TEXAS - AUSTIN	G A SOFFEN	GSFC	J FAMIGLIETTI	NGT 5 33	509
22	UNIV OF TEXAS - AUSTIN	J R FISCHER	GSFC	M G PANDY	NAG 5 2217	502
22	UNIV OF TEXAS - AUSTIN	J R FISHER	GSFC	B E SCHUTZ	NAG 5 2511	502
22	UNIV OF TEXAS - AUSTIN	J R FISHER	GSFC	R A VAN DE GEI JN	NAG 5 2497	502
22	UNIV OF TEXAS - AUSTIN	R S MCGINNIS	HQ	D FUSSELL	NAGW 4247	507
22	UNIV OF TEXAS - AUSTIN	R SAVELY	JSC	C C STOUT	NAG 9 745	505
22	UNIV OF TEXAS - AUSTIN	T PENDLETON	JSC	B KUIPERS	NAG 9 828	505
22	UNIV OF TEXAS - EL PASO	J BENNETT	GSFC	M KOLITSKY	NCC 5 97	512
22	UNIV OF TEXAS - EL PASO	M R LOWRY	ARC	A Q GATES	NAG 2 1012	511
22	UNIV OF TEXAS - EL PASO	R ROCHA	HQ	D FERREGUT	NAG 9 881	511
22	UNIV OF VIRGINIA	C R ELKS	LARC	B W JOHNSON	NCC 1 173	537
22	UNIV OF VIRGINIA	D E ECKHARDT	LARC	J C KNIGHT	NAG 1 1123	532
22	UNIV OF VIRGINIA	D RUDY	LARC	E A WEST	NGT 1 52101	538
22	UNIV OF VIRGINIA	J J LAMBIOTTE	LARC	J M ORTEGA	NAG 1 1529	533
22	UNIV OF VIRGINIA	P HUNTER	HQ	A S GRIMSHAW	NGT 51163	538
22	UNIV OF WASHINGTON	D E ECKHARDT	LARC	N G LEVESON	NAG 1 1495	544
22	UNIV OF WASHINGTON	E A PALMER	ARC	N G LEVESON	NCC 2 982	552
22	UNIV OF WASHINGTON	M MOORE	ARC	S HANKS	NGT 51309	553
22	UNIV OF WEST FLORIDA	H MCDONALD	ARC	K FORD	NCC 2 8014	184

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22	UNIV OF WISCONSIN - MADISON	D K RUSSELL	HQ	J W SHAVIK	NGT 70377	566
22	UNIV OF WISCONSIN - MADISON	G H MUCKLOW	HQ	D J DEWITT	NAGW 3895	563
22	UNIV OF WISCONSIN - MADISON	G H MUCKLOW	HQ	M LIVNY	NAGW 3914	564
22	UNIV OF WISCONSIN - MADISON	G H MUCKLOW	HQ	R RAMAKRISHNAN	NAGW 3921	564
22	UNIV OF WISCONSIN - MADISON	J BREDEKAMP	GSFC	D T SANDERS	NAG 5 3943	561
22	UNIV OF WISCONSIN - MADISON	R S MCGINNIS	HQ	D DEWITT	NAGW 4229	564
22	UNIV OF WISCONSIN - MADISON	S GOLDSTEIN	JSC	H YUTTEN	NGT 51177	566
22	UNIV OF WYOMING	S LAU	ARC	J V BALLEN	NAG 2 877	567
22	VALENCIA COMM COLLEGE	G BUCKINGHAM	KSC	K WOODBERRY	NAG10 165	184
22	VANDERBILT UNIV	T F ZOLADZ	MSFC	T A BAPTY	NAG 8 1298	478
22	VICTOR VALLEY COLLEGE	L DUKE	DFRC	P CHIMIKLIS	NAG 4 122	127
22	WESLEYAN UNIV	C LEVIT	ARC	B HARDY	NCC 2 5189	154
22	WEST VIRGINIA UNIV	J GITELMAN	GSFC	J T JUREWICZ	NAG 5 2129	556
22	WEST VIRGINIA UNIV	M R LOWRY	ARC	J R CALLAHAN	NAG 2 1134	555
22	WEST VIRGINIA UNIV	T WILSON	ARC	E E GOTTLIEB	NCC 2 6009	556
22	WINSTON-SALEM STATE UNIV	G FOLLEN	LERC	A RADENSKI	NAG 3 2011	412
29	ALABAMA A&M UNIV	J R SCOTT	LERC	J O ADEYEYE	NAG 3 2020	1
29	ALABAMA A&M UNIV	R K BOGUE	DFRC	S VON LAVEN	NCC 4 14	2
29	BETHUNE - COOKMAN COLLEGE	A J DIGGS	KSC	T R NICHOLSON	NAGW 4231	165
29	CALIFORNIA POLYTECH STATE U-SAN LUIS	L J SCHILLING	ARC	D BIEZAD	NAG 2 833	53
29	CARROLL COLLEGE	E PRITCHARD	JSC	T J MULLEN	NGT 9 14	343
29	CITY UNIV	D CENTENO-GOMEZ	LERC	G MELENDEZ-DELANEY	NAG 3 2057	369
29	CLEVELAND STATE UNIV	G J FOLLEN	LERC	H LEWANDOWSKI	NCC 3 400	420
29	COLLEGE OF WILLIAM AND MARY	D L PALUMBO	LARC	D M NICOL	NAG 1 1132	520
29	COLUMBIA UNIV	Y FREEMAN	JPL	G LOPEZ	NAGW 2668	377
29	DARTMOUTH COLLEGE	P HUNTER	HQ	D KOTZ	NGT 51160	350
29	FAYETTEVILLE STATE UNIV	R F LAWRENCE	LERC	L EWARDS	NAG 3 2072	404
29	FURMAN UNIV	F SIX	MSFC	K C ABERNETHY	NAG 8 1101	469
29	GEORGE MASON UNIV	A J TUYAHOV	HQ	M KUFATOS	NGT 30330	523
29	GEORGE WASHINGTON UNIV	J G GRIGGS	ARC	M KRUPSAW	NGT 2 52223	160
29	GEORGIA INST OF TECH	J ATKINSON	JSC	A O ESOGBUE	NAG 9 726	189
29	GEORGIA INST OF TECH	T BENTSEN	HQ	W D HUNT	NAGW 2753	190
29	GEORGIA STATE UNIV	R TELLEY	KSC	R PATTERSON	NAG10 235	194
29	JOHNS HOPKINS UNIV	J R FISCHER	GSFC	P OLSON	NCC 5 147	259
29	JOHNSON C	J R SCOTT	LERC	J O ADEYEYE	NAG 3 2022	404
29	KENT STATE UNIV	L SHAW	LERC	S RYAN	NGT 3 52309	423
29	LINCOLN UNIV - PA	D MENCHAN	GSFC	D LANGLEY	NGT 5 59	447
29	LOUISIANA STATE UNIV - BATON ROUGE	S MOLTRA	LARC	X H SUN	NAG 1 1672	242
29	MASSACHUSETTS INST OF TECH	R W REMINGTON	ARC	A R ODONI	NAG 2 1128	292
29	MONTANA TECH OF THE UNIV OF MONTANA	F SIX	MSFC	T MOON	NAG 8 1098	344
29	MOREHOUSE COLLEGE	J D ATKINSN	JSC	B J MARTIN	NAG 9 880	195
29	MORGAN STATE UNIV	J BENNETT	GSFC	W LUPTON	NAG 5 2408	259
29	MT HOLYOKE COLLEGE	B L WHITE	HQ	J MORROW	NAGW 1792	307
29	NORTH CAROLINA A&T STATE UNIV	G S LEE	ARC	A C ESTERLINE	NAG 2 1150	405
29	OLD DOMINION UNIV	F FARASSAT	LARC	J TWEED	NAG 1 1940	529
29	OLD DOMINION UNIV	N D MELSON	LARC	D E KEYES	NAG 1 1692	528
29	PENN STATE UNIV	E L DUKE	DFRC	B GRABOWSKI	NAG 4 113	449
29	PENN STATE UNIV	R F NEECE	LARC	P J MORRIS	NAG 1 1875	448
29	RICE UNIV	L L GREEN	LARC	A CARLE	NCC 1 234	485
29	RICE UNIV	L L GREEN	LARC	A CARLE	NCC 1 236	485
29	RICE UNIV	R LAWRENCE	GSFC	R STABELL	NGT 5 90021	486
29	STEVENS INST OF TECH	B L WHITE	HQ	T G WILLIAMS	NAGW 1877	363
29	TEMPLE UNIV	B C DRAKE	GSFC	S K BISWAS	NAG 5 6238	458
29	TEXAS A&M UNIV-KINGSVILLE	C NOLA	MSFC	B SCHREVR	NAG 8 1297	492
29	TEXAS TECH UNIV	T CLEGHORN	JSC	S MITRA	NAG 9 844	493
29	TURTLE MOUNTAIN COMM COLLEGE	M A STOUTSENBERGER	HQ	S KARNAWAT	NAGW 4953	412
29	TUSKEGEE UNIV	A BEAM	MSFC	E A IBRAHIM	NAG 8 296	5
29	UNIV HOUSTON	C M HOSKINS	JSC	R A ALO	NAG 9 657	494
29	UNIV OF MINN - MINNEAPOLIS-ST PAUL	A NURRIDDIN	HQ	L RUDNICK	NGT 5 50123	332
29	UNIV OF MINN - MINNEAPOLIS-ST PAUL	C LI	JSC	T TEZDYUAR	NAG 9 449	330
29	UNIV OF ALABAMA - HUNTSVILLE	W ANDERSON	MSFC	C DAVIS	NAG 8 987	11
29	UNIV OF ARK MAIN CAMP - FAYETTEVILLE	J J GAREGNANI	HQ	W F LIMP	NAGW 4117	43
29	UNIV OF CALIFORNIA - BERKELEY	G ASRAR	HQ	J M HELLERSTEIN	NAGW 5198	82
29	UNIV OF CALIFORNIA - LOS ANGELES	J R FISCHER	GSFC	C MECHOSO	NCC 5 149	104
29	UNIV OF CHICAGO	J R FISCHER	GSFC	A MALAGOLI	NCC 5 151	215

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29	UNIV OF HOUSTON – CLEAR LAKE	M S MARGOLIS	HQ	G SAWYER	NGT 90031	499
29	UNIV OF ILLINOIS AT URBANA–CHAMPAIGN	J R FISCHER	GSFC	P SAYLOR	NCC 5 153	221
29	UNIV OF MARYLAND – COLLEGE PARK	J R FISCHER	GSFC	P LYSTER	NCC 5 150	276
29	UNIV OF MARYLAND – COLLEGE PARK	R M WEINSTOCK	HQ	C SMIDTS	NAGW 5119	274
29	UNIV OF MARYLAND BALTIMORE COUNTY	A ROBERTS	GSFC	D S EBERT	NCC 5 220	279
29	UNIV OF MICHIGAN – ANN ARBOR	J R FISCHER	GSFC	T GOMBOSI	NCC 5 146	324
29	UNIV OF MISSOURI – COLUMBIA	G ASRAR	HQ	X ZHAUNG	NAGW 4698	337
29	UNIV OF NEW MEXICO	J W GOODRICH	LERC	T HAGSTROM	NAG 3 2008	368
29	UNIV OF NEW MEXICO	R J HAYDUK	HQ	G MAKI	NAGW 3293	368
29	UNIV OF PITTSBURGH	G ASRAR	GSFC	D TIPPER	NGT 5 30019	461
29	UNIV OF TEXAS – AUSTIN	J R FISCHER	GSFC	G CAREY	NCC 5 154	508
29	UNIV OF TEXAS – EL PASO	D R GLOVER	LERC	S D CABRERA	NAG 3 1380	511
29	UNIV OF TEXAS AT SAN ANTONIO	J A ATKINSON	JSC	R DIEM	NAG 9 773	513
29	UNIV OF VIRGINIA	J L WALSH	LARC	J M ORTEGA	NAG 1 1710	533
29	WINSTON–SALEM STATE UNIV	F SIX	MSFC	F LEE	NAG 8 1099	412
30	SAN DIEGO STATE UNIV	D E WICKLAND	HQ	W OECHEL	NGT 30311	58
31	ALABAMA A&M UNIV	G FICHTL	MSFC	LIAU	NAG 8 201	1
31	ALABAMA A&M UNIV	L GREENWOOD	MSFC	T L COLEMAN	NCC 8 140	2
31	ALL RUSSIAN SCI RESEARCH INST VIAM	W L GROSE	LARC	I L KAROL	NCC 1 246	571
31	BOSTON UNIV	B SINGH	LERC	A NADIM	NAG 3 1844	280
31	BOSTON UNIV	D BARKER	HQ	R YELLE	NAGW 4798	283
31	BOSTON UNIV	D TOLL	GSFC	R B MYNENI	NAS 5 96061	284
31	BOSTON UNIV	H OSEROFF	GSFC	W STRAHLER	NAS 5 31369	284
31	BOSTON UNIV	J BERGSTRALH	GSFC	D V YELLE	NAG 5 4426	282
31	BOSTON UNIV	M M MELLOTT	HQ	M MENDILLO	NAGW 5138	283
31	BRIDGEWATER STATE COLLEGE	F SIX	MSFC	J SULONOWSKI	NAG 8 1011	284
31	BRIGHAM YOUNG UNIV	D ADAMER	HQ	D LONG	NAGW 2461	514
31	BROWN UNIV	B DAVIS	JSC	D MUSTARD	NAG13 39	465
31	CALIFORNIA INST OF TECH	C H JACKMAN	GSFC	H ZIRIN	NAG 5 2782	44
31	CALIFORNIA INST OF TECH	G BULLOCK	GSFC	E C STONE	NAG 5 727	44
31	CALIFORNIA INST OF TECH	G L MADDREA	LARC	Y L YUNG	NAG 1 1806	43
31	CALIFORNIA INST OF TECH	J BERGSTRALH	GSFC	D L YUNG	NAG 5 6263	48
31	CALIFORNIA INST OF TECH	J BERGSTRALH	GSFC	D P INGERSOLL	NAG 5 4191	46
31	CALIFORNIA INST OF TECH	M J KURYLO	GSFC	D OKUMURA	NAG 5 3911	46
31	CALIFORNIA INST OF TECH	M J KURYLO	HQ	M OKUMARA	NAGW 3893	50
31	CALIFORNIA INST OF TECH	R A SCHIFFER	HQ	Y L YUNG	NGT 30329	52
31	CALIFORNIA STATE UNIV – FRESNO	D L PETERSON	ARC	D F ZOLDOSKE	NCC 2 5175	54
31	CASE WESTERN RESERVE UNIV	E PRITCHARD	JSC	R P HARVEY	NGT 9 15	418
31	CHRISTOPHER NEWPORT UNIV	G W SACHSE	LARC	A M BUONCRISTIANI	NCC 1 204	519
31	CITY UNIV OF NY CITY COLLEGE	J BERGARAN	HQ	K BECKER	NAGW 4118	370
31	CITY UNIV OF NY CITY COLLEGE	S GLICKER	GSFC	D AKINS	NAG 5 4019	370
31	CITY UNIV OF NY SYSTEM	B E CARLSON	GSFC	N A PARKER	NCC 5 129	371
31	CLARK ATLANTA UNIV	D BOGAN	GSFC	P J TAYAL	NAG 5 4763	185
31	CLARK ATLANTA UNIV	J M EARLS	LERC	K B BOTA	NCC 3 454	186
31	COLLEGE OF WILLIAM AND MARY	J PARK	LARC	D C BENNER	NCC 1 43	521
31	COLORADO STATE UNIV	B A WIELICKI	LARC	D A RANDALL	NAG 1 1266	127
31	COLORADO STATE UNIV	D S MCDOUGAL	LARC	D A RANDALL	NAG 1 1701	127
31	COLORADO STATE UNIV	D S MCDOUGAL	LARC	G L STEPHENS	NAG 1 1702	127
31	COLORADO STATE UNIV	D S MCDOUGAL	LARC	S K COX	NAG 1 1704	127
31	COLORADO STATE UNIV	D S MCDOUGAL	LARC	W R COTTON	NAG 1 1703	127
31	COLORADO STATE UNIV	E P CONDON	ARC	D C ROGERS	NAG 2 1109	128
31	COLORADO STATE UNIV	E P CONDON	ARC	S M KREIDENWEISS	NAG 2 924	127
31	COLORADO STATE UNIV	G ASRAR	GSFC	S KREIDENWEIS	NGT 5 30001	130
31	COLORADO STATE UNIV	G ASRAR	HQ	J A KNAFF	NGT 30147	129
31	COLORADO STATE UNIV	G L MADDREA	LARC	D RANDALL	NAS 1 19951	129
31	COLORADO STATE UNIV	J C DODGE	GSFC	G L STEPHENS	NAG 5 3449	128
31	COLORADO STATE UNIV	J C DODGE	HQ	G C CAMPBELL	NAGW 4122	129
31	COLORADO STATE UNIV	J C DODGE	HQ	T H HAAR	NAGW 2700	129
31	COLORADO STATE UNIV	O THIELE	GSFC	D RANDALL	NAG 5 4749	128
31	COLORADO STATE UNIV	P SELLERS	GSFC	D RANDALL	NAS 5 31730	129
31	COLORADO STATE UNIV	R A ALDER	GSFC	S A RUTLEDGE	NAG 5 4754	128
31	COLORADO STATE UNIV	S A ALDER	GSFC	S A RUTLEDGE	NAG 5 2692	128
31	COLORADO STATE UNIV	T MILLER	MSFC	S Q KIDDER	NAS 8 97082	129
31	COLORADO STATE UNIV	W WISCOMBE	GSFC	D RANDALL	NAG 5 1058	128
31	COLUMBIA UNIV	A LACIS	GSFC	L DRUYAN	NCC 5 82	378

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31	COLUMBIA UNIV	D RIND	GSFC	I TEGEN	NAG 5 4052	375
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31	COLUMBIA UNIV	M KHAZENIE	GSFC	W BROECKER	NAG 5 6294	376
31	COLUMBIA UNIV	M S BURRELL	GSFC	A D DELGENIO	NGT 5 44	379
31	COLUMBIA UNIV	O W THIELE	GSFC	K TAKANO	NAG 5 1960	372
31	COLUMBIA UNIV	R A SCHIFFER	HQ	J E HANSEN	NGT 30310	379
31	COLUMBIA UNIV	R STOTHERS	GSFC	C K CHU	NCC 5 34	378
31	COLUMBIA UNIV	R W STEWART	GSFC	A MACKE	NAG 5 6240	376
31	COLUMBIA UNIV	S HOWARD	GSFC	D BERSOHN	NAG 5 4971	376
31	CORNELL UNIV	A NOVOTING	HQ	K H COOK	NGT 51374	387
31	CORNELL UNIV	G ASRAR	GSFC	L O HEDIN	NGT 5 30038	387
31	CORNELL UNIV	G LESANE	HQ	K COOK	NGT 51147	386
31	CORNELL UNIV	J BERGSTRALH	GSFC	D MCDONALD	NAG 5 4189	382
31	CORNELL UNIV	M D HALL	GSFC	D LUCAS	NGT 5 54	387
31	CORNELL UNIV	M S BURRELL	GSFC	B L ISACKS	NGT 5 51	387
31	DARTMOUTH COLLEGE	C H JACKMAN	GSFC	C G FESEN	NAG 5 2743	348
31	DREXEL UNIV	J M HOELL, JR.	LARC	D R BANDY	NAG 1 1770	446
31	DREXEL UNIV	R J BENDURA	LARC	A R BANDY	NAG 1 1224	446
31	DUKE UNIV	R ROOD	GSFC	P KABIBHATLA	NAG 5 3665	402
31	EMBRY-RIDDLE AERONAUTICAL UNIV	D SIX	GSFC	C D STODDEN	NAG 8 1195	166
31	EMBRY-RIDDLE AERONAUTICAL UNIV	F SIX	MSFC	L ERICKSON	NCC 8 26	166
31	FAIRMONT STATE COLLEGE	K NIEWOEHNER	HQ	C WHITE	NCCW 50	555
31	FLORIDA INST OF TECH	O J THIELE	GSFC	W L JONES	NAS 5 32364	170
31	FLORIDA STATE UNIV	A J NEGRI	GSFC	E A SMITH	NAG 5 4752	172
31	FLORIDA STATE UNIV	A NEGRI	GSFC	E SMITH	NAG 5 2672	171
31	FLORIDA STATE UNIV	D FITZJARRALD	MSFC	T N KRISHNAMURTI	NAG 8 1199	172
31	FLORIDA STATE UNIV	E P CONDON	ARC	H E FUELBERG	NAG 2 1098	171
31	FLORIDA STATE UNIV	G ASRAR	HQ	H E FUELBERG	NGT 30214	173
31	FLORIDA STATE UNIV	G L GREGORY	LARC	H E FUELBERG	NAG 1 1795	171
31	FLORIDA STATE UNIV	J C DODGE	HQ	E A SMITH	NAGW 3970	172
31	FLORIDA STATE UNIV	J FISHMAN	LARC	T N KRISHNAMURTI	NAG 1 1312	170
31	FLORIDA STATE UNIV	J M HOELL, JR.	LARC	T N KRISHNAMURTI	NAG 1 1771	170
31	FLORIDA STATE UNIV	J R BATES	GSFC	I M NAVON	NAG 5 1660	171
31	FLORIDA STATE UNIV	M HALL	GSFC	I NAVON	NAG 5 4873	172
31	FLORIDA STATE UNIV	O W THIELE	GSFC	T N KRISHNAMURTI	NAG 5 1595	171
31	FLORIDA STATE UNIV	O W THIELE	GSFC	T N KRISHNAMURTI	NAG 5 4729	172
31	FLORIDA STATE UNIV	R D MCPETERS	GSFC	D C CAIN	NAG 5 3185	172
31	GARDEN COMM COLLEGE	N GEHRELS	GSFC	G M LAIRD	NAG 5 2949	237
31	GEORGE MASON UNIV	A F HASLER	GSFC	B MONES-HATTAL	NAG 5 2897	522
31	GEORGE WASHINGTON UNIV	S HOWARD	GSFC	D KEATING	NAG 5 6081	158
31	GEORGETOWN UNIV	G ASRAR	GSFC	J M HICKS	NGT 5 30043	160
31	GEORGIA INST OF TECH	A R DOUGLAS	GSFC	D M CUNNOLD	NAG 5 3149	189
31	GEORGIA INST OF TECH	C H JACKMAN	GSFC	D E HARTLEY	NAG 5 2789	188
31	GEORGIA INST OF TECH	E P CONDON	ARC	J D BRADSHAW	NAG 2 954	187
31	GEORGIA INST OF TECH	E P CONDON	ARC	S C LIU	NAG 2 1103	187
31	GEORGIA INST OF TECH	E V BROWELL	LARC	J D BRADSHAW	NAG 1 1213	186
31	GEORGIA INST OF TECH	G ASRAR	HQ	F EISELE	NAGW 4692	190
31	GEORGIA INST OF TECH	G ASRAR	HQ	J BRADSHAW	NAGW 4699	190
31	GEORGIA INST OF TECH	G L MADDREA	LARC	D M CUNNOLD	NAS 1 18938	190
31	GEORGIA INST OF TECH	G L MADDREA	LARC	D M CUNNOLD	NAS 1 19954	190
31	GEORGIA INST OF TECH	J A KAYE	HQ	D E HARTLEY	NAGW 4246	190
31	GEORGIA INST OF TECH	J A KAYE	HQ	F L EISELE	NAGW 3767	190
31	GEORGIA INST OF TECH	J BERGSTRALH	GSFC	D G STEFFES	NAG 5 4190	189
31	GEORGIA INST OF TECH	J FISHMAN	LARC	D D DAVIS	NAG 1 1438	186
31	GEORGIA INST OF TECH	J M HOELL, JR.	LARC	D D BRADSHAW	NAG 1 1767	187
31	GEORGIA INST OF TECH	J M HOELL, JR.	LARC	D D DAVIS	NAG 1 1769	187
31	GEORGIA INST OF TECH	J M HOELL, JR.	LARC	D L EISELE	NAG 1 1766	187
31	GEORGIA INST OF TECH	J M HOELL, JR.	LARC	M O RODGERS	NAG 1 1768	187
31	GEORGIA INST OF TECH	J M HOELL, JR.	LARC	S LIU	NAG 1 1822	187
31	GEORGIA INST OF TECH	J M HOELL	LARC	J P BRADSHAW	NAG 1 1904	187
31	GEORGIA INST OF TECH	J T BERGSTRALH	HQ	P G STEFFES	NAGW 533	190
31	GEORGIA INST OF TECH	M J KURYLO	GSFC	P H WINE	NAG 5 3634	189
31	GEORGIA INST OF TECH	M J KURYLO	HQ	P H WINE	NAGW 1001	190
31	GEORGIA INST OF TECH	R A SCHIFFER	HQ	P H WINE	NGT 30345	191
31	GEORGIA INST OF TECH	R F ADLER	GSFC	A J GASIEWSKI	NAG 5 1490	188

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31	HAMPTON UNIV	E J CONWAY	LARC	T H CHYBA	NCC 1 215	525
31	HAMPTON UNIV	J FISHMAN	LARC	T H CHYBA	NAG 1 1949	524
31	HAMPTON UNIV	J FISHMAN	LARC	T ZENKER	NCC 1 214	525
31	HAMPTON UNIV	L R POOLE	LARC	M P MCCORMICK	NAG 1 1947	524
31	HAMPTON UNIV	R L DUNCAN	LARC	P MCCORMICK	NAS 1 97042	525
31	HARVARD UNIV	E CONDON	ARC	J G ANDERSON	NCC 2 790	289
31	HARVARD UNIV	E P CONDON	ARC	D J JACOB	NAG 2 1100	285
31	HARVARD UNIV	E P CONDON	ARC	S C WOFSY	NAG 2 974	285
31	HARVARD UNIV	E P CONDON	ARC	S C WOFSY	NCC 2 694	289
31	HARVARD UNIV	G ASRAR	HQ	D JACOB	NGT 30172	289
31	HARVARD UNIV	G ASRAR	HQ	D JACOB	NGT 30184	289
31	HARVARD UNIV	G L MADDREA	LARC	D J JACOB	NAG 1 1909	285
31	HARVARD UNIV	G L MADDREA,JR.	LARC	S C WOFSY	NAS 1 96022	289
31	HARVARD UNIV	J A KAYE	HQ	M B MCELROY	NAGW 2632	288
31	HARVARD UNIV	J M HOELL, JR.	LARC	D J JACOB	NAG 1 1759	285
31	HARVARD UNIV	L R POOLE	LARC	J G ANDERSON	NAG 1 1305	285
31	HARVARD UNIV	L R POOLE	LARC	J G ANDERSON	NAG 1 1849	285
31	HARVARD UNIV	R D MCPETERS	HQ	S C WOFSY	NAGW 1230	288
31	HARVARD UNIV	R W STEWART	GSFC	D J JACOB	NAG 5 2688	285
31	HARVARD UNIV	R W STEWART	GSFC	M B MCELROY	NAG 5 2958	286
31	HARVARD UNIV	S S WEGENER	ARC	G J ANDERSON	NCC 2 892	289
31	HARVARD UNIV	S S WEGENER	ARC	J G ANDERSN	NCC 2 913	289
31	HARVARD UNIV	S S WEGENER	ARC	S C WOFSY	NCC 2 897	289
31	HOWARD UNIV	D BOGAN	GSFC	D OKABE	NAG 5 4764	161
31	HOWARD UNIV	J T BERGSTRALH	HQ	H OKABE	NAGW 785	162
31	HOWARD UNIV	M SUAREZ	GSFC	J LINDESAY	NGT 5 55	162
31	HOWARD UNIV	S R BREON	GSFC	A N THORPE	NAG 5 1017	161
31	HOWARD UNIV	W R HOEGY	GSFC	A N THORPE	NCC 5 197	162
31	INDIANA STATE UNIV	B DAVIS	SSC	P MAUSEL	NAG13 34	223
31	IOWA STATE UNIV	A J KRUEGER	GSFC	J L STANFORD	NAG 5 1519	231
31	IOWA STATE UNIV	C H JACKMAN	GSFC	J L STANFORD	NAG 5 2787	231
31	IOWA STATE UNIV	G ASRAR	HQ	E TAKLE	NGT 30342	232
31	JACKSON STATE UNIV	R ADLER	GSFC	P FITZPATRICK	NAG 5 6209	332
31	JOHNS HOPKINS UNIV	D BOGAN	GSFC	D F STROBEL	NAG 5 4168	253
31	JOHNS HOPKINS UNIV	G C CLAYTON	HQ	R C HENRY	NAGW 1890	255
31	JOHNS HOPKINS UNIV	H BLODGET	GSFC	J SALISBURY	NAS 5 31373	258
31	JOHNS HOPKINS UNIV	J J WOLFF	GSFC	J YEE	NAS 5 97179	259
31	JOHNS HOPKINS UNIV	J T BERGSTRALH	HQ	D F STROBEL	NAGW 648	255
31	JOHNS HOPKINS UNIV	K M LAU	GSFC	A ARKING	NAG 5 2039	251
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31	JOHNS HOPKINS UNIV	M J KURYLO	HQ	S A LLOYD	NAGW 4745	257
31	JOHNS HOPKINS UNIV	M M MELLOT	HQ	J B GARY	NAGW 5058	258
31	LOMA LINDA UNIV	V THORNE	HQ	D M SLATER	NCCW 98	57
31	MANKATO STATE UNIV	J RICHARDS	GSFC	T C OWENS	NAG 5 3095	327
31	MASSACHUSETTS INST OF TECH	A C JANETOS	HQ	R PLUMB	NGT 30251	306
31	MASSACHUSETTS INST OF TECH	A HOU	GSFC	P H STONE	NAG 5 4880	299
31	MASSACHUSETTS INST OF TECH	B G BILLS	GSFC	P MOLNAR	NAG 5 1947	294
31	MASSACHUSETTS INST OF TECH	C H JACKMAN	GSFC	R A PLUMB	NAG 5 2812	295
31	MASSACHUSETTS INST OF TECH	D ADAMEO	HQ	P MALANOTTE-RIZZO	NAGW 2711	302
31	MASSACHUSETTS INST OF TECH	D G DUFFY	GSFC	P H STONE	NAG 5 2490	295
31	MASSACHUSETTS INST OF TECH	D RIND	GSFC	P STONE	NAG 5 2907	296
31	MASSACHUSETTS INST OF TECH	E CONDON	ARC	M J MOLINA	NAG 2 632	292
31	MASSACHUSETTS INST OF TECH	E P CONDON	ARC	N E NEWELL	NAG 2 1105	292
31	MASSACHUSETTS INST OF TECH	G L MADDREA	LARC	R A PLUMB	NAG 1 1900	292
31	MASSACHUSETTS INST OF TECH	G L MADDREA	LARC	R E NEWELL	NAG 1 1901	292
31	MASSACHUSETTS INST OF TECH	G L MADDREA	LARC	R G PRINN	NAG 1 1805	292
31	MASSACHUSETTS INST OF TECH	H BRINTON	HQ	P FORD	NAGW 4351	303
31	MASSACHUSETTS INST OF TECH	J A KAYE	GSFC	R A PLUMB	NAG 5 3793	297
31	MASSACHUSETTS INST OF TECH	J A KAYE	HQ	R G PRINN	NAGW 474	301
31	MASSACHUSETTS INST OF TECH	J BERGSTRALH	GSFC	D DOWLING	NAG 5 6130	300
31	MASSACHUSETTS INST OF TECH	J BERGSTRALH	GSFC	D RICHARDSON	NAG 5 6129	300
31	MASSACHUSETTS INST OF TECH	J M HOELL, JR.	LARC	D E NEWELL	NAG 1 1758	291
31	MASSACHUSETTS INST OF TECH	J M HOELL	LARC	R E NEWELL	NAG 1 1252	291

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31	MASSACHUSETTS INST OF TECH	M J KURYLO	GSFC	P STEINFELD	NAG 5 3977	297
31	MASSACHUSETTS INST OF TECH	M J KURYLO	GSFC	R G PRINN	NAG 5 3974	297
31	MASSACHUSETTS INST OF TECH	M J KURYLO	HQ	J I STEINFELD	NAGW 1667	302
31	MASSACHUSETTS INST OF TECH	M J KURYLO	HQ	M J MOLINA	NAGW 2190	302
31	MASSACHUSETTS INST OF TECH	O W THIELE	GSFC	E R WILLIAMS	NAG 5 4778	298
31	MASSACHUSETTS INST OF TECH	R D MCPETERS	HQ	R A PLUMB	NAGW 1727	302
31	MASSACHUSETTS INST OF TECH	R D MCPETERS	HQ	R G PRINN	NAGW 732	301
31	MASSACHUSETTS INST OF TECH	R K KAKAR	HQ	R S LINDZEN	NAGW 525	301
31	MASSACHUSETTS INST OF TECH	R KAKAR	GSFC	R L BRAS	NAG 5 3726	297
31	MICHIGAN TECHNOLOGICAL UNIV	A C JANETOS	HQ	R E HONRATH	NGT 30275	315
31	MICHIGAN TECHNOLOGICAL UNIV	A J KRUEGER	GSFC	W I ROSE	NAG 5 2324	314
31	MICHIGAN TECHNOLOGICAL UNIV	A KRUEGAR	GSFC	G BLUTH	NAG 5 3260	314
31	MICHIGAN TECHNOLOGICAL UNIV	J BERSTRALH	GSFC	D BORYSOW	NAG 5 4534	314
31	MOREHOUSE COLLEGE	E COTHRAN	MSFC	G WALKER	NAG 8 1231	194
31	NEW MEXICO INST OF MINING & TECH	C JACKMAN	GSFC	K MINSCHWANER	NAG 5 2847	364
31	NEW MEXICO INST OF MINING & TECH	L MAIER	KSC	W RISON	NAG10 188	365
31	NEW MEXICO INST OF MINING & TECH	M J KURYLO	GSFC	K MINSCHWANNER	NAG 5 4139	364
31	NEW MEXICO INST OF MINING & TECH	M J KURYLO	HQ	K MINSCHWANER	NAGW 4887	365
31	NEW MEXICO INST OF MINING & TECH	R J BLAKESLEE	MSFC	M BROOK	NAG 8 1123	365
31	NEW MEXICO STATE UNIV - LAS CRUCES	J BERGSTRALH	GSFC	D MARLEY	NAG 5 4987	366
31	NY UNIV	CROSENZWEIG	GSFC	M HOFFERT	NCC 5 125	389
31	NIAGARA UNIV	R BLAKESLEE	MSFC	W BOECK	NCC 8 55	389
31	NORFOLK STATE UNIV	W P CHU	LARC	W J RODRIGUEZ	NAG 1 1944	526
31	NORTH CAROLINA STATE UNIV	A NWGRI	GSFC	M KAPLAN	NAG 5 4802	408
31	NORTH CAROLINA STATE UNIV	F H PROCTOR	LARC	Y L LIN	NCC 1 188	409
31	NORTH CAROLINA STATE UNIV	F H PROCTOR	LARC	Y L LIN	NCC 1 220	409
31	NORTH CAROLINA STATE UNIV	Y CONNORS	LARC	S RAMAR	NAG 1 1752	407
31	NOVOSIBIRSK STATE UNIV	R W STEWART	GSFC	I G DEMINOV	NAG 5 3409	571
31	OHIO NORTHERN UNIV	J G WELLS	LARC	K A KEPPLER	NAG 1 1922	423
31	OHIO STATE UNIV	A C JANETOS	HQ	E C DELUCIA	NGT 30236	428
31	OHIO STATE UNIV	B H PUTNEY	GSFC	C C GOAD	NAG 5 2041	425
31	OHIO STATE UNIV	M J KURYLO	GSFC	F C DEELUCIA	NAG 5 3983	425
31	OHIO STATE UNIV	T W HAMILTON	GSFC	R H THOMAS	NAS 5 30946	427
31	OHIO STATE UNIV	W B KRABILL	WFF	E MOSLEY-THOMPSON	NAG 5 5032	426
31	OLD DOMINION UNIV	E J CONWAY	LARC	H ELSAYED-ALI	NCC 1 219	530
31	OLD DOMINION UNIV	W P CHU	LARC	A M BULLOCK	NGT 1 52131	531
31	OLD DOMINION UNIV	W P CHU	LARC	A N DHARAMSI	NAG 1 1869	529
31	OLD DOMINION UNIV	W T CHU	LARC	P SHEA	NGT 1 52168	532
31	OREGON STATE UNIV	C RABER	GSFC	D H FREILICH	NAS 5 32965	442
31	OREGON STATE UNIV	E P CONDON	ARC	J B KAUFFMAN	NGT 2 52221	442
31	OREGON STATE UNIV	G L MADDREA	LARC	J A COAKLEY	NAS 1 19952	441
31	OREGON STATE UNIV	J W YOUNGBLOOD	LARC	J A COAKLEY	NAG 1 1263	439
31	OREGON STATE UNIV	R H THOMAS	GSFC	D LEVY	NAG 5 4069	440
31	OREGON STATE UNIV	R M HABERLE	ARC	J R BARNES	NCC 2 661	442
31	PENN STATE UNIV	E CONDON	ARC	W BRUNE	NAG 2 826	448
31	PENN STATE UNIV	E P CONDON	ARC	W H BRUNE	NAG 2 1117	448
31	PENN STATE UNIV	J A KAYE	HQ	J J OLIVERO	NAGW 2712	454
31	PENN STATE UNIV	J C DODGE	HQ	E J BARRON	NAGW 2686	454
31	PENN STATE UNIV	J D RUMMEL	HQ	J F KASTING	NAGW 1911	453
31	PENN STATE UNIV	J M HOELL	LARC	W H BRUNE	NAG 1 1057	448
31	PENN STATE UNIV	L MAIER	KSC	G S FORBES	NAG10 187	455
31	PENN STATE UNIV	M M MELLOT	HQ	C L CROSKEY	NAGW 5057	454
31	PENN STATE UNIV	R A SCHIFFER	HQ	W H BRUNE	NGT 30314	456
31	PENN STATE UNIV	R W STEWART	GSFC	T P ACKERMAN	NAG 5 2701	450
31	PENN STATE UNIV	T OWENS	LARC	T P ACKERMAN	NAG 1 999	448
31	PENN STATE UNIV	W TAO	GSFC	M FRITSCH	NAG 5 2927	450
31	PRAIRIE VIEW A&M UNIV	D D ARNDT	JSC	C TOLLIVER	NCC 9 40	482
31	PRAIRIE VIEW A&M UNIV	G CRESS	JSC	S B LIN	NAG 9 878	482
31	PRINCETON UNIV	G ASRAR	GSFC	H LEVY	NGT 5 30015	360
31	PRINCETON UNIV	J A KAYE	GSFC	D RABITZ	NAG 5 4045	359
31	PRINCETON UNIV	J A KAYE	HQ	H ROBITZ	NAGW 3952	359
31	PRINCETON UNIV	J A KAYE	HQ	V RAMASWAMY	NGT 30234	360
31	PURDUE UNIV	B L APENTA	MSFC	G W PETTY	NAG 8 1233	227
31	PURDUE UNIV	D BOGAN	GSFC	D ZWIER	NAG 5 4819	227

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31	PURDUE UNIV	J C DODGE	HQ	G W PETTY	NAGW 3944	227
31	PURDUE UNIV	K H BERGMAN	GSFC	D HARSHVARDHAN	NAG 5 3992	227
31	PURDUE UNIV	R KAKAR	GSFC	C A CLAYSON	NAG 5 3965	227
31	RICE UNIV	H E DAVIS	JSC	F TITTLE	NAS 9 19553	485
31	ROCHESTER INST OF TECH	F SIX	MSFC	M L WINGSWORTH	NAG 8 1008	393
31	RUTGERS STATE UNIV - PISCATAWAY	A C JANETOS	HQ	R AVISSAR	NAGW 5226	362
31	RUTGERS STATE UNIV - PISCATAWAY	B A BAUM	LARC	J A FRANCIS	NAG 1 1748	361
31	RUTGERS STATE UNIV - PISCATAWAY	R B STOTHERS	GSFC	R AVISSAR	NCC 5 229	362
31	RUTGERS STATE UNIV - PISCATAWAY	S HOWARD	GSFC	D MADEY	NAG 5 6186	362
31	RUTGERS STATE UNIV OF NJ NEW BRUNS	J FRANCIS	LARC	J A FRANCIS	NAG 1 1908	363
31	SAN FRANCISCO STATE UNIV	R S HIPSKIND	ARC	K L PAGAN	NCC 2 901	59
31	SAN JOSE STATE UNIV	D M HABERLE	ARC	D F BRIDGER	NCC 2 5171	62
31	SAN JOSE STATE UNIV	G L MADDREA	LARC	P HAMILL	NAG 1 1804	59
31	SAN JOSE STATE UNIV	L E LASHER	ARC	P LESTER	NCC 2 471	60
31	SAN JOSE STATE UNIV	O B TOON	ARC	P HAMILL	NCC 2 665	60
31	SAN JOSE STATE UNIV	R B CHATFIELD	ARC	P HAMILL	NCC 2 756	60
31	SAN JOSE STATE UNIV	R E BACH	ARC	P F LESTER	NCC 2 315	60
31	SAN JOSE STATE UNIV	R E WONG	ARC	A BRIDGER	NCC 2 5093	61
31	SAN JOSE STATE UNIV	R E YOUNG	ARC	A BRIDGER	NCC 2 5092	61
31	SAN JOSE STATE UNIV	R E YOUNG	ARC	A C BRIDGER	NCC 2 955	61
31	SAN JOSE STATE UNIV	R L CHAN	ARC	J GOODMAN	NCC 2 168	60
31	SAN JOSE STATE UNIV	R M HABERLE	ARC	A BRIDGER	NCC 2 5076	61
31	SAN JOSE STATE UNIV	R M HABERLE	ARC	A BRIDGER	NCC 2 5111	61
31	SAN JOSE STATE UNIV	R M HABERLE	ARC	A BRIDGER	NCC 2 5130	61
31	SAN JOSE STATE UNIV	R M HABERLE	ARC	A BRIDGER	NCC 2 5148	61
31	SAN JOSE STATE UNIV	R M HABERLE	ARC	A C BRIDGER	NCC 2 5203	62
31	SAN JOSE STATE UNIV	R M HABERLE	ARC	A F BRIDGER	NCC 2 5230	62
31	SAN JOSE STATE UNIV	R M HABERLE	ARC	D C BRIDGER	NCC 2 5181	62
31	SAN JOSE STATE UNIV	T V BUI	ARC	J GOODMAN	NCC 2 211	60
31	SOUTH DAKOTA SCH OF MINES & TECH	B A WIELICKI	LARC	S K SENGUPTA	NAG 1 542	471
31	SOUTH DAKOTA SCH OF MINES & TECH	D J BLAKE	GSFC	R M WELCH	NAG 5 2889	471
31	SOUTH DAKOTA SCH OF MINES & TECH	G ASRAR	HQ	S A CHRISTOPHER	NAGW 5195	472
31	SOUTH DAKOTA SCH OF MINES & TECH	J C DODGE	HQ	Q Y HAN	NAGW 3788	471
31	SOUTH DAKOTA SCH OF MINES & TECH	J T SUTTLES	HQ	R M WELCH	NAGW 3740	471
31	SOUTH DAKOTA SCH OF MINES & TECH	R A SCHIFFER	GSFC	Q HAN	NAG 5 4654	471
31	SOUTH DAKOTA SCH OF MINES & TECH	R A SCHIFFER	HQ	Q HAN	NAGW 3922	471
31	SOUTH DAKOTA SCH OF MINES & TECH	R A SCHIFFER	HQ	R M WELCH	NAGW 4791	471
31	SOUTH DAKOTA SCH OF MINES & TECH	R A SCHIFFER	HQ	S A CHRISTOPHER	NAGW 3966	471
31	SOUTH DAKOTA SCH OF MINES & TECH	R F ADLER	GSFC	P SMITH	NAG 5 386	471
31	SOUTH DAKOTA SCH OF MINES & TECH	R W STEWART	GSFC	A G DETWILER	NAG 5 2711	471
31	SOUTH DAKOTA SCH OF MINES & TECH	R W STEWART	GSFC	R M WELCH	NAG 5 2712	471
31	SOUTHERN UNIV & A&M COLLEGE	R LEE	KSC	R M DIVWAN	NAG10 182	246
31	STANFORD UNIV	C MCKAY	ARC	B CANTWELL	NCC 2 5166	70
31	STANFORD UNIV	D BOGAN	GSFC	P L TYLER	NAG 5 4321	66
31	STANFORD UNIV	J BERGSTRALH	GSFC	D R ESHLEMAN	NAG 5 4322	66
31	STANFORD UNIV	J BERGSTRALH	HQ	G L TYLER	NAGW 4341	67
31	STANFORD UNIV	M BALTUCK	GSFC	G ERNST	NAG 5 4888	66
31	STANFORD UNIV	P SELLERS	GSFC	H MOONEY	NAS 5 31726	68
31	STATE UNIV OF NY - ALBANY	G L MADDREA	LARC	V MOHNEN	NAS 1 18942	393
31	STATE UNIV OF NY - ALBANY	L PFISTER	ARC	M KRITZ	NCC 2 5125	393
31	STATE UNIV OF NY - ALBANY	L PFISTER	ARC	M KRITZ	NCC 2 5212	393
31	STATE UNIV OF NY - ALBANY	R W STEWART	GSFC	C W WALEK	NAG 5 2714	393
31	STATE UNIV OF NY - STONY BROOK	A R DOUGLASS	GSFC	M A GELLER	NAG 5 3177	396
31	STATE UNIV OF NY - STONY BROOK	B A WIELICKI	LARC	R D CESS	NAG 1 1264	395
31	STATE UNIV OF NY - STONY BROOK	C A REBER	GSFC	M A GELLER	NAS 5 31247	398
31	STATE UNIV OF NY - STONY BROOK	D KURYLO	GSFC	D VARANABI	NAG 5 3718	396
31	STATE UNIV OF NY - STONY BROOK	G L MADDREA	LARC	M A GELLER	NAG 1 1838	395
31	STATE UNIV OF NY - STONY BROOK	J BERGSTRALH	GSFC	D FOX	NAG 5 6007	396
31	STATE UNIV OF NY - STONY BROOK	J C DODGE	HQ	R D CESS	NAGW 3517	397
31	STATE UNIV OF NY - STONY BROOK	M D CHOU	GSFC	M ZHANG	NAG 5 3135	396
31	STATE UNIV OF NY - STONY BROOK	M J KURYLO	GSFC	P SOLOMON	NAG 5 4043	396
31	STATE UNIV OF NY - STONY BROOK	M J KURYLO	GSFC	R L DE ZAFRA	NAG 5 4071	396
31	STATE UNIV OF NY - STONY BROOK	M J KURYLO	HQ	P M SOLOMON	NAGW 1560	397
31	STATE UNIV OF NY - STONY BROOK	M J KURYLO	HQ	R DE ZAFRA	NAGW 2182	397

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31	STATE UNIV OF NY – STONY BROOK	R W STEWART	GSFC	M A GELLER	NAG 5 2739	395
31	STATE UNIV OF NY COL – PURCHASE	H M HELFAND	GSFC	J TENENBAUM	NAG 5 3169	399
31	STATE UNIV OF NY COL – PURCHASE	R W STEWART	GSFC	J TENENBAUM	NAG 5 2700	399
31	STEVENS INST OF TECH	S HOWARD	GSFC	D BECKER	NAG 5 4978	363
31	SYRACUSE UNIV	R B ROOD	GSFC	G C FOX	NAG 5 2280	400
31	TEXAS A&M UNIV SYSTEM	J C DODGE	GSFC	E ZIPSER	NAG 5 4699	492
31	TEXAS A&M UNIV	CHERMAN	JSC	J S LINDER	NAG 9 331	489
31	TEXAS A&M UNIV	G ASRAR	GSFC	E ZIPSER	NGT 5 30033	492
31	TEXAS A&M UNIV	G L MADDREA	LARC	K P BOWMAN	NAG 1 1896	487
31	TEXAS A&M UNIV	J A KAYE	HQ	K P BOWMAN	NAGW 3442	490
31	TEXAS A&M UNIV	J A WEINMAN	GSFC	T T WILHEIT	NAG 5 4746	488
31	TEXAS A&M UNIV	J R WANG	GSFC	T T WILHEIT	NAG 5 1423	488
31	TEXAS A&M UNIV	J W KAUFMAN	MSFC	J P MC GUIRK	NAG 8 299	488
31	TEXAS A&M UNIV	J WEINMAN	GSFC	T T WILHEIT	NAG 5 1568	488
31	TEXAS A&M UNIV	K LULLA	JSC	J GIARDINO	NAG 9 807	489
31	TEXAS A&M UNIV	O THIELE	GSFC	E ZIPSER	NAG 5 1569	488
31	TEXAS A&M UNIV	O THIELE	GSFC	E ZIPSER	NAG 5 4796	488
31	TEXAS A&M UNIV	O W THEILE	GSFC	G R NORTH	NAG 5 4753	488
31	TEXAS A&M UNIV	O W THIELE	GSFC	G R NORTH	NAG 5 2778	488
31	TEXAS A&M UNIV	O W THIELE	GSFC	M I BIGGERSTAFF	NAG 5 4776	488
31	TEXAS A&M UNIV	P HWONG	GSFC	T T WILHEIT	NAS 5 32593	490
31	TEXAS A&M UNIV	S J GOODMAN	MSFC	E J ZIPSER	NAG 8 1200	489
31	TEXAS A&M UNIV	T BELL	GSFC	G R NORTH	NAG 5 1590	488
31	THE CATHOLIC UNIV OF AMERICA	T GULL	GSFC	S KRAEMER	NAG 5 4103	163
31	THE UNIV OF CENTRAL FLORIDA	C LENNON	KSC	C G CHRISTODOULOU	NAG10 194	174
31	THE UNIV OF CENTRAL FLORIDA	J QUINN	KSC	C D COOPER	NCC10 20	174
31	UNIV OF MARYLAND AT BALTIMORE	A TUYAHOV	HQ	T W FORESMAN	NAGW 5070	261
31	UNIV OF MARYLAND AT BALTIMORE	M J KURYLO	GSFC	D SIROTA	NAG 5 3907	260
31	UNIV OF MINN – MINNEAPOLIS–ST PAUL	J A KAYE	HQ	P M MCMURRY	NAGW 3751	331
31	UNIV OF MINN – MINNEAPOLIS–ST PAUL	M J KURYLO	HQ	R W CARR	NAGW 800	330
31	UNIV OF MINN – MINNEAPOLIS–ST PAUL	R F CAHALAN	GSFC	E FOUFOULA–GEORGIOU	NAG 5 2108	328
31	UNIV OF MINN – MINNEAPOLIS–ST PAUL	S ISMAIL	LARC	K J DAVIS	NAG 1 1938	328
31	UNIV OF TEXAS–PAN AMERICAN	J D ATKINSON	JSC	J WIENER	NAG 9 553	497
31	UNIV OF TEXAS–PAN AMERICAN	J D ATKINSON	JSC	R H FOWLER	NAG 9 551	497
31	UNIV	D S MCDOUGAL	LARC	J G HUDSON	NAG 1 1845	347
31	UNIV	D S MCDOUGAL	LARC	J HALLEH	NAG 1 1707	347
31	UNIV	E P CONDON	ARC	J HALLETT	NAG 2 923	347
31	UNIV	E P CONDON	ARC	W P ARNOTT	NAG 2 1104	347
31	UNIV	J T SUTTLES	HQ	J G HUDSON	NAGW 3753	347
31	UNIV OF ALABAMA – HUNTSVILLE	B A WIELICKI	LARC	R WELCH	NAG 1 1955	8
31	UNIV OF ALABAMA – HUNTSVILLE	D HOLLAND	HQ	M P HICKEY	NGT 51641	15
31	UNIV OF ALABAMA – HUNTSVILLE	G L MADDREA	LARC	M J NEWCHURCH	NAG 1 1842	8
31	UNIV OF ALABAMA – HUNTSVILLE	G L MADDREA	LARC	M J NEWCHURCH	NAG 1 1898	8
31	UNIV OF ALABAMA – HUNTSVILLE	H RAMPRIYAN	GSFC	R WELCH	NAG 5 4788	10
31	UNIV OF ALABAMA – HUNTSVILLE	M E MAIDEN	HQ	J R CHRISTY	NAGW 4749	13
31	UNIV OF ALABAMA – UNIV	J T BERGSTRALH	HQ	R H TIPPING	NAGW 3785	17
31	UNIV OF ALABAMA – UNIV	S HOWARD	GSFC	D TIPPING	NAG 5 6314	16
31	UNIV OF ALASKA – FAIRBANKS	B J FLOWERS	GSFC	S A KASOFU	NAG 5 699	18
31	UNIV OF ALASKA – FAIRBANKS	J T SUTTERS	HQ	G E SHAW	NAGW 3728	20
31	UNIV OF ALASKA – FAIRBANKS	J WILLETT	HQ	H STENBAEK–NELSON	NAGW 4904	20
31	UNIV OF ALASKA – FAIRBANKS	M J FILLIS	GSFC	S SCHWATAL	NAS 5 32206	20
31	UNIV OF ALASKA – FAIRBANKS	R D MCPETERS	HQ	K STAMNES	NAGW 2165	20
31	UNIV OF ALASKA – FAIRBANKS	S GOGINENI	GSFC	C LINGLE	NAG 5 4981	19
31	UNIV OF ARIZONA	A NEGRI	GSFC	J REAGAN	NAG 5 6070	33
31	UNIV OF ARIZONA	A NOVOTNY	HQ	P N SLATER	NGT 51219	40
31	UNIV OF ARIZONA	D BOGAN	GSFC	D W BOUGHER	NAG 5 4161	32
31	UNIV OF ARIZONA	D HOLLAND	HQ	M DRAKE	NGT 51644	41
31	UNIV OF ARIZONA	G L MADDREA JR	LARC	B M HERMAN	NAS 1 18939	38
31	UNIV OF ARIZONA	G L MADDREA	LARC	J A REAGAN	NAS 1 19953	39
31	UNIV OF ARIZONA	H OSEROFF	GSFC	A HUETE	NAS 5 31364	39
31	UNIV OF ARIZONA	J A KAYE	GSFC	L L HOOD	NAG 5 3777	30
31	UNIV OF ARIZONA	J BERGSTRALH	GSFC	D HERBERT	NAG 5 4158	31
31	UNIV OF ARIZONA	J BERGSTRALH	GSFC	D M HUNTEN	NAG 5 3643	30
31	UNIV OF ARIZONA	J BERGSTRALH	GSFC	M M LARSON	NAG 5 3791	30
31	UNIV OF ARIZONA	J D SPINHIRNE	GSFC	J A REAGAN	NCC 5 77	39
31	UNIV OF ARIZONA	J H OWENS	MSFC	A L BROADFOOT	NAG 8 1079	34

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31	UNIV OF ARIZONA	J T BERGSTRALH	HQ	J I LUNINE	NAGW 1039	34
31	UNIV OF ARIZONA	K H BERGMAN	HQ	R FU	NAGW 5246	38
31	UNIV OF ARIZONA	L E LASHER	ARC	M G TOMASKO	NAG 2 906	27
31	UNIV OF ARIZONA	L STUART	GSFC	P N SLATER	NAS 5 31717	39
31	UNIV OF ARIZONA	M BALTUCK	HQ	C CHASE	NAGW 3166	36
31	UNIV OF ARIZONA	R ASCHIFFER	HQ	B M HERMAN	NGT 30325	40
31	UNIV OF ARIZONA	R D MCPETERS	GSFC	B M HERMAN	NAG 5 1496	28
31	UNIV OF ARIZONA	R D MCPETERS	HQ	L L HOOD	NAGW 909	34
31	UNIV OF ARIZONA	W JAFFERIS	KSC	E P KRIDER	NAG10 92	38
31	UNIV OF CALIFORNIA - BERKELEY	D E WICKLAND	HQ	J HARTE	NGT 30212	85
31	UNIV OF CALIFORNIA - BERKELEY	E P CONDON	ARC	R C COHEN	NAG 2 1110	72
31	UNIV OF CALIFORNIA - BERKELEY	G LEVY	HQ	P RICHARDS	NAGW 2121	79
31	UNIV OF CALIFORNIA - BERKELEY	L CHRISTENSEN	GSFC	F MOZER	NAS 5 30801	82
31	UNIV OF CALIFORNIA - BERKELEY	P SELLERS	GSFC	P MATSON	NAS 5 96092	83
31	UNIV OF CALIFORNIA - BERKELEY	S HOWARD	GSFC	D G LUHMANN	NAG 5 4979	78
31	UNIV OF CALIFORNIA - BERKELEY	S HOWARD	GSFC	D S MARCUS	NAG 5 4899	78
31	UNIV OF CALIFORNIA - DAVIS	G ASRAR	HQ	B C WEARE	NGT 30200	91
31	UNIV OF CALIFORNIA - DAVIS	G ASRAR	HQ	E C CORDERO	NGT 30153	91
31	UNIV OF CALIFORNIA - DAVIS	J BERGSTRALH	GSFC	D M JACKSON	NAG 5 4711	88
31	UNIV OF CALIFORNIA - DAVIS	J BERGSTRALH	GSFC	D WHITE	NAG 5 6246	88
31	UNIV OF CALIFORNIA - DAVIS	J T BERGSTRALH	HQ	W M JACKSON	NAGW 903	89
31	UNIV OF CALIFORNIA - DAVIS	P SELLERS	GSFC	S USTIN	NAS 5 31359	89
31	UNIV OF CALIFORNIA - DAVIS	T L MILLER	MSFC	T R NATHAN	NAG 8 1143	89
31	UNIV OF CALIFORNIA - IRVINE	C H JACKMAN	GSFC	D W TOOHEY	NAG 5 2780	92
31	UNIV OF CALIFORNIA - IRVINE	E P CONDON	ARC	D BLAKE	NAG 2 1102	92
31	UNIV OF CALIFORNIA - IRVINE	E P CONDON	ARC	D W TOOHEY	NAG 2 970	92
31	UNIV OF CALIFORNIA - IRVINE	G ASRAR	GSFC	D TOOHEY	NGT 5 30035	94
31	UNIV OF CALIFORNIA - IRVINE	G ASRAR	HQ	D W TOOHEY	NGT 30161	94
31	UNIV OF CALIFORNIA - IRVINE	G ASRAR	HQ	R J CICERONE	NGT 30163	94
31	UNIV OF CALIFORNIA - IRVINE	G L MADREA	LARC	M J PRANTHER	NAG 1 1906	92
31	UNIV OF CALIFORNIA - IRVINE	J A KAYE	GSFC	S C TYLER	NAG 5 3467	93
31	UNIV OF CALIFORNIA - IRVINE	J A KAYE	HQ	M J PRATHER	NAGW 3163	93
31	UNIV OF CALIFORNIA - IRVINE	J A KAYE	HQ	S C TYLER	NAGW 4867	93
31	UNIV OF CALIFORNIA - IRVINE	J M HOELL, JR.	LARC	D R BLAKE	NAG 1 1777	92
31	UNIV OF CALIFORNIA - IRVINE	J W DREWRY	LARC	F S ROWLAND	NAG 1 1644	91
31	UNIV OF CALIFORNIA - IRVINE	M J KURYLO	HQ	D R BLAKE	NAGW 452	93
31	UNIV OF CALIFORNIA - IRVINE	R W STEWART	GSFC	M J PRATHER	NAG 5 2724	92
31	UNIV OF CALIFORNIA - IRVINE	R W STEWART	GSFC	M J PRATHER	NAG 5 2917	93
31	UNIV OF CALIFORNIA - IRVINE	W L GROSE	LARC	M J PRATHER	NAG 1 1515	91
31	UNIV OF CALIFORNIA - LOS ANGELES	C H JACKMAN	GSFC	R K ULRICH	NAG 5 2749	96
31	UNIV OF CALIFORNIA - LOS ANGELES	D S MCDOUGAL	LARC	K N LIOU	NAG 1 1966	94
31	UNIV OF CALIFORNIA - LOS ANGELES	E STANSBERY	JSC	K D MCKEEGAN	NAG 9 864	99
31	UNIV OF CALIFORNIA - LOS ANGELES	G L MADDREA	LARC	R P TURCO	NAS 1 19956	103
31	UNIV OF CALIFORNIA - LOS ANGELES	J A KAYE	HQ	R TURCO	NAGW 3671	101
31	UNIV OF CALIFORNIA - LOS ANGELES	J BERGSTRALH	GSFC	D M THORNE	NAG 5 6265	99
31	UNIV OF CALIFORNIA - LOS ANGELES	J BERGSTRALH	GSFC	D PAIGE	NAG 5 6272	99
31	UNIV OF CALIFORNIA - LOS ANGELES	J BERGSTRALH	GSFC	P SCHUBERT	NAG 5 4117	97
31	UNIV OF CALIFORNIA - LOS ANGELES	J BERGSTRALH	HQ	J LUHMANN	NAGW 4063	102
31	UNIV OF CALIFORNIA - LOS ANGELES	J PFAENDTNER	GSFC	M GHIL	NAG 5 713	95
31	UNIV OF CALIFORNIA - LOS ANGELES	J R FISCHER	GSFC	C R MECHOSO	NAG 5 2224	96
31	UNIV OF CALIFORNIA - LOS ANGELES	J T BERGSTRALH	HQ	J G LUHMAN	NAGW 3426	101
31	UNIV OF CALIFORNIA - LOS ANGELES	J T BERGSTRALH	HQ	K K KHURANA	NAGW 3661	101
31	UNIV OF CALIFORNIA - LOS ANGELES	J T BERGSTRALH	HQ	R J STRANGEWAY	NAGW 3497	101
31	UNIV OF CALIFORNIA - LOS ANGELES	M MEYER	HQ	D A PAIGE	NAGW 4115	102
31	UNIV OF CALIFORNIA - LOS ANGELES	M SUAREZ	GSFC	A ARAKAWA	NAG 5 2591	96
31	UNIV OF CALIFORNIA - LOS ANGELES	M SUAREZ	GSFC	A ARAKAWA	NAG 5 4420	98
31	UNIV OF CALIFORNIA - LOS ANGELES	R A SCHIFFER	HQ	R P TURCO	NGT 30238	104
31	UNIV OF CALIFORNIA - LOS ANGELES	R A SCHIFFER	HQ	R P TURCO	NGT 30334	104
31	UNIV OF CALIFORNIA - LOS ANGELES	R D MCPETERS	HQ	C R MECHOSO	NAGW 1021	100
31	UNIV OF CALIFORNIA - LOS ANGELES	R W STEWART	GSFC	R P TURCO	NAG 5 2723	96
31	UNIV OF CALIFORNIA - SAN DIEGO	A KAYE	HQ	D LUBIN	NAGW 3896	112
31	UNIV OF CALIFORNIA - SAN DIEGO	B KURRANYS	GSFC	W COLLINS	NAG 5 3511	108
31	UNIV OF CALIFORNIA - SAN DIEGO	D S MCDOUGAL	LARC	F J VALERO	NAG 1 1965	106
31	UNIV OF CALIFORNIA - SAN DIEGO	J BERGSTRALH	GSFC	D MARTI	NAG 5 4579	109
31	UNIV OF CALIFORNIA - SAN DIEGO	J BERGSTRALH	GSFC	D MENDIS	NAG 5 3781	108

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31	UNIV OF CALIFORNIA - SAN DIEGO	J BERSTARALH	HQ	A MENDIS	NAGW 4264	112
31	UNIV OF CALIFORNIA - SAN DIEGO	J C DODGE	GSFC	J J SIMPSON	NAG 5 6135	110
31	UNIV OF CALIFORNIA - SAN DIEGO	M J KURYLO	GSFC	R F WEISS	NAG 5 4023	109
31	UNIV OF CALIFORNIA - SAN DIEGO	M J KURYLO	HQ	R F WEISS	NAGW 2034	111
31	UNIV OF CALIFORNIA - SAN DIEGO	O W THIELE	GSFC	J O ROADS	NAG 5 4775	110
31	UNIV OF CALIFORNIA - SANTA BARBARA	G COLLATZ	GSFC	A S DENNING	NAS 5 97146	119
31	UNIV OF CALIFORNIA - SANTA BARBARA	J C DODGE	HQ	C GAUTIER	NAGW 3180	117
31	UNIV OF CALIFORNIA - SANTA BARBARA	R CAHALAN	GSFC	C GAUTHIER	NAG 5 4629	116
31	UNIV OF CALIFORNIA - SANTA BARBARA	T BRAKKE	GSFC	J M MELACK	NAS 5 31713	118
31	UNIV OF CALIFORNIA - SANTA CRUZ	R A SCHIFFER	HQ	F J VALERO	NAGW 5033	121
31	UNIV OF CALIFORNIA - SANTA CRUZ	S HOWARD	GSFC	D S VOGT	NAG 5 4445	121
31	UNIV OF CHICAGO	A J NEGRI	GSFC	T T FUJITA	NAG 5 3041	211
31	UNIV OF CHICAGO	C H JACKMAN	GSFC	N NAKAMURA	NAG 5 2792	211
31	UNIV OF CHICAGO	E M SULLIVAN	LARC	J E FREDERICK	NAS 1 18239	215
31	UNIV OF CHICAGO	J A KAYE	HQ	N NAHAMURA	NAGW 4281	214
31	UNIV OF CHICAGO	J WILLETT	HQ	K PYLE	NAGW 4957	214
31	UNIV OF CHICAGO	O W THIELE	GSFC	R C SRIVASTAVA	NAG 5 4777	213
31	UNIV OF CHICAGO	R D MCPETERS	GSFC	G C TIAO	NAG 5 2849	211
31	UNIV OF CINCINNATI	B E ANDERSON	LARC	S K DURLAK	NGT 1 52140	433
31	UNIV OF CINCINNATI	G ASRAR	HQ	S ISLAM	NGT 30326	432
31	UNIV OF COLORADO - BOULDER	A NOVOTNY	HQ	M A TOLBERT	NGT 51224	149
31	UNIV OF COLORADO - BOULDER	C H JACKMAN	GSFC	D C FRITTS	NAG 5 2786	133
31	UNIV OF COLORADO - BOULDER	C H JACKMAN	GSFC	G J ROTTMAN	NAS 5 97145	147
31	UNIV OF COLORADO - BOULDER	C H JACKMAN	GSFC	J LONDON	NAG 5 3179	134
31	UNIV OF COLORADO - BOULDER	C H JACKMAN	GSFC	T J FULLER-ROWELL	NAG 5 2753	133
31	UNIV OF COLORADO - BOULDER	D BOGAN	GSFC	D R LEONE	NAG 5 4314	137
31	UNIV OF COLORADO - BOULDER	D S MCDOUGAL	LARC	J CURRY	NAG 1 1708	130
31	UNIV OF COLORADO - BOULDER	E J JENSEN	ARC	I N SOKOLIK	NAG 2 1116	131
31	UNIV OF COLORADO - BOULDER	E J JENSEN	ARC	M J MILLS	NAG 2 1127	132
31	UNIV OF COLORADO - BOULDER	E P CONDON	ARC	L M AVALLONE	NAG 2 1124	131
31	UNIV OF COLORADO - BOULDER	E P CONDON	ARC	P J SHERIDAN	NAG 2 953	131
31	UNIV OF COLORADO - BOULDER	G ASRAR	HQ	A R RAVISHANKARA	NGT 30206	147
31	UNIV OF COLORADO - BOULDER	G ASRAR	HQ	D J HOFMANN	NGT 30205	147
31	UNIV OF COLORADO - BOULDER	G ASRAR	HQ	M SALBY	NGT 30187	147
31	UNIV OF COLORADO - BOULDER	J A KAYE	GSFC	D L SALBY	NAG 5 6133	140
31	UNIV OF COLORADO - BOULDER	J A KAYE	HQ	M L SALBY	NAGW 3485	143
31	UNIV OF COLORADO - BOULDER	J A SLAVIN	GSFC	D N BAKER	NAG 5 2681	133
31	UNIV OF COLORADO - BOULDER	J BERGSTRALH	GSFC	D M SCHNEIDER	NAG 5 4932	139
31	UNIV OF COLORADO - BOULDER	J BERGSTRALH	HQ	B JAKOSKY	NAGW 3995	144
31	UNIV OF COLORADO - BOULDER	J C DODGE	HQ	J A CURRY	NAGW 3997	144
31	UNIV OF COLORADO - BOULDER	J C DODGE	HQ	M L SALBY	NAGW 3047	143
31	UNIV OF COLORADO - BOULDER	J C DODGE	HQ	S AVERY	NAGW 4146	144
31	UNIV OF COLORADO - BOULDER	J C DODGE	HQ	W EMERY	NAGW 3919	144
31	UNIV OF COLORADO - BOULDER	J D BOHLIN	HQ	X LI	NAGW 5152	146
31	UNIV OF COLORADO - BOULDER	J OWEN	MSFC	G C CLAYTON	NAG 8 1048	141
31	UNIV OF COLORADO - BOULDER	K H BERGMAN	HQ	K F EVANS	NAGW 5192	146
31	UNIV OF COLORADO - BOULDER	L R POOLE	LARC	D W FUSCH	NAG 1 1923	131
31	UNIV OF COLORADO - BOULDER	M M MELLOTT	GSFC	D M JAKOSKY	NAG 5 4530	138
31	UNIV OF COLORADO - BOULDER	P G ROGERS	HQ	L ESPOSITO	NAGW 4373	144
31	UNIV OF COLORADO - BOULDER	R A SCHIFFER	GSFC	D	NAG 5 4446	137
31	UNIV OF COLORADO - BOULDER	R A SCHIFFER	HQ	M A TOLBERT	NGT 30353	148
31	UNIV OF COLORADO - BOULDER	R A SCHIFFER	HQ	V VAIDA	NGT 30265	148
31	UNIV OF COLORADO - BOULDER	S J GOODMAN	MSFC	G S SCHARFEN	NAG 8 1093	141
31	UNIV OF COLORADO - BOULDER	W CHAO	GSFC	P J WEBSTER	NAG 5 2671	133
31	UNIV OF COLORADO - BOULDER	W L GROSE	LARC	M L SALBY	NAG 1 1355	130
31	UNIV OF DELAWARE	O W THIELE	GSFC	C J WILLMOTT	NAG 5 4829	157
31	UNIV OF DENVER	B E ANDERSON	LARC	J C WILSON	NAG 1 1918	152
31	UNIV OF DENVER	C P RINSLAND	LARC	A GOLDMAN	NCC 1 48	152
31	UNIV OF DENVER	E CONDON	ARC	J C WILSON	NCC 2 782	152
31	UNIV OF DENVER	E P CONDON	ARC	D G MURCRAY	NAG 2 351	152
31	UNIV OF DENVER	G MADDREA	LARC	J C WILSON	NAS 1 96017	152
31	UNIV OF DENVER	S S WEGENER	ARC	J C WILSON	NCC 2 894	152
31	UNIV OF DISTRICT OF COLUMBIA	H L KYLE	GSFC	H L DHURIA	NAG 5 2345	165
31	UNIV OF FLORIDA	L E LASHER	ARC	M A UMAN	NAG 2 667	175
31	UNIV OF GEORGIA	T MILLER	MSFC	D P LO	NAS 8 97081	197

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31	UNIV OF HAWAII - MANOA	J M HOELL, JR.	LARC	B J HUEBERT	NAG 1 1763	198
31	UNIV OF HAWAII - MANOA	J R RICHARDS	GSFC	T C OWENS	NAS 5 30951	202
31	UNIV OF HAWAII - MANOA	J T SUTTLES	HQ	A CLARKE	NAGW 3766	200
31	UNIV OF HAWAII - MANOA	M BALTUCK	HQ	S SELF	NAGW 3721	200
31	UNIV OF HAWAII SYSTEM	J M HOELL, JR.	LARC	D D CLARKE	NAG 1 1764	203
31	UNIV OF IDAHO	L E LASHER	ARC	D G ATKINSON	NAG 2 961	206
31	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	C H JACKMAN	GSFC	X TAO	NAG 5 2746	219
31	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	C J MAGEE	LARC	J J COLEMAN	NAG 1 1861	217
31	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	D L MAIDEN	LARC	D J WUEBBLES	NAG 1 1659	217
31	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	D L MAIDEN	LARC	D J WUEBBLES	NAG 1 1741	217
31	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	G L MADDREA	LARC	C S GARDNER	NAS 1 19950	221
31	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	G L MADDREA	LARC	N SONG	NAS 1 19957	221
31	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	J A KAYE	GSFC	D J WUEBGLES	NAG 5 4044	219
31	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	J A KAYE	HQ	D J WUEBBLES	NAGW 4387	221
31	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	J R RALL	GSFC	G C PAPEN	NAG 5 3552	219
31	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	R D MCPETERS	HQ	W A ROBINSON	NAGW 1729	220
31	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	R W STEWART	GSFC	D J WUEBBLES	NAG 5 4414	220
31	UNIV OF IOWA	G ASRAR	HQ	T F SMITH	NGT 30218	236
31	UNIV OF IOWA	G ASRAR	HQ	W F KRAJEWSKI	NGT 30192	236
31	UNIV OF IOWA	G L MADDREA	LARC	G R CAMICHAEL	NAG 1 1907	233
31	UNIV OF IOWA	G M HEYMSFIELD	GSFC	W F KRAJEWSKI	NAG 5 4755	234
31	UNIV OF IOWA	J A KAYE	HQ	G R CARMICHAEL	NAGW 2428	235
31	UNIV OF IOWA	J L CHRISTENSEN	GSFC	D GURNETT	NAS 5 30730	236
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32	ARIZONA STATE UNIV	J NUTH	HQ	P R BUSECK	NAGW 3386	24
32	ARIZONA STATE UNIV	J R UNDERWOOD	HQ	J FINK	NAGW 529	24
32	ARIZONA STATE UNIV	J R UNDERWOOD	HQ	R GREELEY	NAGW 1774	24
32	ARIZONA STATE UNIV	J UNDERWOOD	HQ	P R CHRISTENSEN	NAGW 943	24
32	ARIZONA STATE UNIV	M MEYER	GSFC	D GREELEY	NAG 5 4156	23
32	ARIZONA STATE UNIV	P G ROGERS	GSFC	D FINK	NAG 5 3783	22
32	ARIZONA STATE UNIV	P G ROGERS	GSFC	D R CHRISTENSEN	NAG 5 3628	22
32	ARIZONA STATE UNIV	P G ROGERS	GSFC	R GREELEY	NAG 5 3909	23
32	ARIZONA STATE UNIV	P ROGERS	GSFC	D G GRIMM	NAG 5 4532	23
32	ARIZONA STATE UNIV	P ROGERS	GSFC	D GREELEY	NAG 5 3908	23
32	ARIZONA STATE UNIV	T A MAXWELL	HQ	R GREELEY	NAGW 2064	24
32	ARIZONA STATE UNIV	T A MAXWELL	HQ	R GREELEY	NAGW 2102	24
32	ARIZONA STATE UNIV	W L QUAIDE	HQ	R GREELEY	NAGW 2622	24
32	BLOOMSBERG UNIV	P ROGERS	GSFC	D K SHEPARD	NAG 5 4000	443
32	BOISE STATE UNIV	P ROGERS	GSFC	V OBERBECK	NAG 5 6090	205

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32	BRIGHAM YOUNG UNIV	M BALTUCK	GSFC	D LONG	NAG 5 5096	514
32	BRIGHAM YOUNG UNIV	M BALTUCK	HQ	D LONG	NAGW 4959	514
32	BROWN UNIV	D K RUSSELL	HQ	J HEAD	NGT 70326	465
32	BROWN UNIV	G A LESANE	HQ	P C HESS	NGT 51350	465
32	BROWN UNIV	G VARSI	GSFC	D W HEAD	NAG 5 4356	463
32	BROWN UNIV	J BOYCE	HQ	C E PIETERS	NAGW 5101	465
32	BROWN UNIV	J BOYCE	HQ	M RUTHERFORD	NAGW 3633	464
32	BROWN UNIV	J M BOYCE	HQ	J F MUSTARD	NAGW 3379	464
32	BROWN UNIV	J R UNDERWOOD	HQ	C M PIETERS	NAGW 748	464
32	BROWN UNIV	J R UNDERWOOD	HQ	P H SCHULTZ	NAGW 705	464
32	BROWN UNIV	J R UNDERWOOD	HQ	P H SCHULTZ	NAGW 855	464
32	BROWN UNIV	J UNDERWOOD	HQ	C M PIETERS	NAGW 28	463
32	BROWN UNIV	P G ROGERS	GSFC	C M PIETERS	NAG 5 3871	462
32	BROWN UNIV	P G ROGERS	GSFC	C M PIETERS	NAG 5 4366	463
32	BROWN UNIV	P G ROGERS	GSFC	D W HEAD	NAG 5 3933	463
32	BROWN UNIV	P G ROGERS	GSFC	E PARMENTIER	NAG 5 3659	462
32	BROWN UNIV	P G ROGERS	GSFC	J W HEAD	NAG 5 4585	463
32	BROWN UNIV	P G ROGERS	GSFC	J W HEAD	NAG 5 4723	463
32	BROWN UNIV	P G ROGERS	GSFC	P H SCHULTZ	NAG 5 3872	462
32	BROWN UNIV	P G ROGERS	GSFC	P H SCHULTZ	NAG 5 3877	463
32	BROWN UNIV	P ROGERS	GSFC	D F MUSTARD	NAG 5 4162	463
32	BROWN UNIV	RAHE	HQ	C PIETERS	NAGW 3709	464
32	BROWN UNIV	RAHE	HQ	P HESS	NAGW 3613	464
32	BROWN UNIV	T A MAXWELL	HQ	J W HEAD	NAGW 1873	464
32	BROWN UNIV	T A MAXWELL	HQ	J W HEAD	NAGW 2185	464
32	BROWN UNIV	TA MAXWELL	HQ	E M PARMENTIER	NAGW 1928	464
32	BUCKNELL UNIV	J M BOYCE	HQ	D J LIEN	NAGW 3377	444
32	CALIFORNIA INST OF TECH	C HIX	JPL	M GURNIS	NGT 51703	52
32	CALIFORNIA INST OF TECH	E STANSBERY	JSC	D S BARNETT	NAG 9 861	48
32	CALIFORNIA INST OF TECH	G C BRINTON	HQ	G J WASSERBURG	NAGW 3297	50
32	CALIFORNIA INST OF TECH	H BRINTON	HQ	D O MUHLEMAN	NAGW 5167	51
32	CALIFORNIA INST OF TECH	H C BRINTON	HQ	D S BURNETT	NAGW 3534	50
32	CALIFORNIA INST OF TECH	H C BRINTON	HQ	D S BURNETT	NAGW 3592	50
32	CALIFORNIA INST OF TECH	H C BRINTON	HQ	E STOLPER	NAGW 3533	50
32	CALIFORNIA INST OF TECH	H C BRINTON	HQ	G J WASSERBURG	NAGW 3337	50
32	CALIFORNIA INST OF TECH	J BOYCE	HQ	S EPSTEIN	NAGW 3883	50
32	CALIFORNIA INST OF TECH	J M BOYCE	HQ	D O MUHLEMAN	NAGW 3011	49
32	CALIFORNIA INST OF TECH	J UNDERWOOD	HQ	D J STEVENSON	NAGW 185	48
32	CALIFORNIA INST OF TECH	M BALTUCK	HQ	H TAYLOR	NGT 30255	52
32	CALIFORNIA INST OF TECH	P G RODGERS	GSFC	D J STEVENSON	NAG 5 3765	46
32	CALIFORNIA INST OF TECH	P G ROGERS	GSFC	T J AHRENS	NAG 5 3644	45
32	CALIFORNIA INST OF TECH	P G ROGERS	GSFC	T J AHRENS	NAG 5 4206	47
32	CALIFORNIA INST OF TECH	P ROGERS	GSFC	D O MUHLEMAN	NAG 5 4614	47
32	CALIFORNIA INST OF TECH	T A MAXWELL	HQ	T J AHRENS	NAGW 1941	49
32	CALIFORNIA INST OF TECH	T A MAXWELL	HQ	T J AHRENS	NAGW 1953	49
32	CENTRAL WASHINGTON UNIV	B G BILLS	GSFC	M MILLER	NAG 5 2908	543
32	CENTRAL WASHINGTON UNIV	M BALTUCK	HQ	C RUBIN	NAGW 4282	544
32	CENTRAL WASHINGTON UNIV	M BALTUCK	HQ	M MILLER	NAGW 3826	543
32	CLEMSON UNIV - CLEMSON	H C BRINTON	HQ	D D CLAYTON	NAGW 3277	468
32	CLEMSON UNIV - CLEMSON	J BOYCE	HQ	B MEYER	NAGW 3480	468
32	COLLEGE OF CHARLESTON	D SICKOREZ	SSC	D R COOMBS	NAG 9 846	469
32	COLLEGE OF CHARLESTON	G A SOFFEN	GSFC	M W COLGAN	NAG 5 1634	469
32	COLLEGE OF CHARLESTON	P ROGERS	GSFC	D R COOMBS	NAG 5 4198	469
32	COLUMBIA UNIV	B A CARLSON	GSFC	G J KUKLA	NCC 5 72	378
32	COLUMBIA UNIV	B G BILLS	GSFC	J BEAVAN	NAG 5 1948	372
32	COLUMBIA UNIV	B G BILLS	GSFC	J BEAVAN	NAG 5 1949	372
32	COLUMBIA UNIV	GASRAR	HQ	W S BROECKER	NGT 30171	378
32	COLUMBIA UNIV	H C BRINTON	HQ	J LONGHI	NAGW 3407	377
32	COLUMBIA UNIV	H C BRINTON	HQ	J LONGHI	NAGW 3434	377
32	COLUMBIA UNIV	H V FREY	GSFC	J WEISSEL	NAG 5 2987	373
32	COLUMBIA UNIV	V GRIFFIN	GSFC	R C WILSON	NAS 5 97164	378
32	CORNELL UNIV	A NURRIDDIN	HQ	B NICHOLSON	NGT 51223	387
32	CORNELL UNIV	H C BRINTON	HQ	P C THOMAS	NAGW 3275	385
32	CORNELL UNIV	J M BOYCE	HQ	P HELFENSTEIN	NAGW 4986	386
32	CORNELL UNIV	J R UNDERWOOD	HQ	D L TURCOTTE	NAGW 1420	384
32	CORNELL UNIV	J R UNDERWOOD	HQ	P D NICHOLSON	NAGW 544	384

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32	CORNELL UNIV	J UNDERWOOD	HQ	J A BURNS	NAGW 310	384
32	CORNELL UNIV	J UNDERWOOD	HQ	S SQUYRES	NAGW 1023	384
32	CORNELL UNIV	P G ROGERS	GSFC	D L TURCOTTE	NAG 5 4361	382
32	CORNELL UNIV	P G ROGERS	GSFC	D SQUYRES	NAG 5 4364	382
32	CORNELL UNIV	P G ROGERS	GSFC	J VEVERKA	NAG 5 3626	382
32	CORNELL UNIV	P G ROGERS	GSFC	P C THOMAS	NAG 5 3627	382
32	CORNELL UNIV	P G ROGERS	GSFC	P D NICHOLSON	NAG 5 3795	382
32	CORNELL UNIV	P G ROGERS	GSFC	P HELFENSTEIN	NAG 5 3639	382
32	CORNELL UNIV	P G ROGERS	GSFC	S W SQUYRES	NAG 5 4205	382
32	CORNELL UNIV	P ROGERS	GSFC	D A BURNS	NAG 5 3910	382
32	CORNELL UNIV	P ROGERS	GSFC	D B CAMPBELL	NAG 5 4220	382
32	CORNELL UNIV	P ROGERS	GSFC	D F BELL	NAG 5 4333	382
32	CORNELL UNIV	P ROGERS	GSFC	D VEVERKA	NAG 5 4502	383
32	CORNELL UNIV	R WILLIAMS	HQ	D CAMPBELL	NAGW 3985	385
32	CORNELL UNIV	T A MAXWELL	HQ	C SAGAN	NAGW 1870	384
32	CORNELL UNIV	T A MAXWELL	HQ	J VEVERKA	NAGW 2149	385
32	CORNELL UNIV	T A MAXWELL	HQ	J VEVERKA	NAGW 2186	385
32	DARTMOUTH COLLEGE	M BALTUCK	GSFC	R BRACKENRIDGE	NAG 5 3498	348
32	DARTMOUTH COLLEGE	M BALTUCK	HQ	R BRAKENRIDGE	NAGW 3227	349
32	DENISON UNIV	DBOGAN	GSFC	D E MICKELSON	NAG 5 4341	422
32	EMPORIA STATE UNIV	F SIX	MSFC	J S ABER	NAG 8 215	237
32	FLA INTERNATIONAL UNIV	H V FREY	GSFC	D WHITMAN	NAG 5 3071	166
32	FLORIDA STATE UNIV	P TAYLOR	GSFC	J CAIN	NAG 5 2970	172
32	HARVARD UNIV	B F CHAO	HQ	J BLOXHAM	NAGW 3467	288
32	HARVARD UNIV	J BOYCE	HQ	C AGEE	NAGW 3996	288
32	HARVARD UNIV	J D RUMMEL	HQ	A D HOLLAND	NAGW 599	288
32	HARVARD UNIV	J D RUMMEL	HQ	A H KNOLL	NAGW 893	288
32	HARVARD UNIV	J M BOYCE	HQ	A G CAMERON	NAGW 1598	288
32	HARVARD UNIV	M BALTUCK	HQ	S B JACOBSEN	NGT 30256	290
32	HARVARD UNIV	M MEYER	GSFC	D H KNOLL	NAG 5 3645	286
32	HARVARD UNIV	P TAYLOR	GSFC	J BLOXAM	NAG 5 2971	286
32	HUNTER COLLEGE	L GAYDOS	ARC	K C CLARKE	NCC 2 5091	388
32	INDIANA UNIV - BLOOMINGTON	G ASRAR	HQ	K L LECKRONE	NGT 30125	224
32	INDIANA UNIV - BLOOMINGTON	H BRINTON	HQ	R DURISEN	NAGW 4587	224
32	INDIANA UNIV - BLOOMINGTON	H C BRINTON	HQ	A BASU	NAGW 3404	224
32	INDIANA UNIV - BLOOMINGTON	H V FREY	GSFC	M W HAMBURGER	NAG 5 5167	224
32	INDIANA UNIV - BLOOMINGTON	P ROGERS	GSFC	D H DURISEN	NAG 5 4342	224
32	JOHNS HOPKINS UNIV	J M BOYCE	HQ	M T ZUBER	NAGW 3394	256
32	JOHNS HOPKINS UNIV	T A MAXWELL	HQ	J W SALISBURY	NAGW 1885	255
32	KANSAS STATE UNIV	D H SCOTT	HQ	J R UNDERWOOD	NAGW 1111	238
32	LAFAYETTE COLLEGE	J BOYCE	HQ	D HOGENBLOOM	NAGW 3521	447
32	LAMAR UNIV	D MCKAY	JSC	D JORDAN	NAG 9 884	481
32	LOUISIANA STATE UNIV - BATON ROUGE	B SWINFORD	MSFC	N LAM	NGT 51183	244
32	MASSACHUSETTS INST OF TECH	B G BILLS	GSFC	A E ROGERS	NAG 5 1906	294
32	MASSACHUSETTS INST OF TECH	B G BILLS	GSFC	B H HAGER	NAG 5 1911	294
32	MASSACHUSETTS INST OF TECH	B G BILLS	GSFC	T H JORDAN	NAG 5 1905	294
32	MASSACHUSETTS INST OF TECH	B WILDES	GSFC	A R WHITNEY	NAS 5 31728	304
32	MASSACHUSETTS INST OF TECH	D E SMITH	GSFC	M T ZABER	NAG 5 3264	296
32	MASSACHUSETTS INST OF TECH	D E SMITH	GSFC	M T ZUBER	NAG 5 3290	296
32	MASSACHUSETTS INST OF TECH	E KREINS	GSFC	D H STACLIN	NAS 5 31376	304
32	MASSACHUSETTS INST OF TECH	H FREY	GSFC	A NIELL	NAG 5 6063	299
32	MASSACHUSETTS INST OF TECH	H FREY	GSFC	B FIELD	NAG 5 6062	299
32	MASSACHUSETTS INST OF TECH	H FREY	GSFC	P MOLNAR	NAG 5 4807	299
32	MASSACHUSETTS INST OF TECH	H V FREY	GSFC	R E REILINGER	NAG 5 6145	300
32	MASSACHUSETTS INST OF TECH	J BOYCE	HQ	M T ZUBER	NAGW 4971	304
32	MASSACHUSETTS INST OF TECH	J BOYCE	HQ	T GROVE	NAGW 3586	302
32	MASSACHUSETTS INST OF TECH	J D RUMMEL	HQ	J P GROTZINGER	NAGW 2795	302
32	MASSACHUSETTS INST OF TECH	J R UNDERWOOD	HQ	J WISDOM	NAGW 706	301
32	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	D R ZUBER	NAG 5 4555	298
32	MASSACHUSETTS INST OF TECH	M BALTUCK	HQ	B G BURCHFIEL	NAGW 2155	302
32	MASSACHUSETTS INST OF TECH	P G ROGERS	GSFC	D G FORD	NAG 5 4047	298
32	MASSACHUSETTS INST OF TECH	P G ROGERS	GSFC	J WISDOM	NAG 5 3915	297
32	MASSACHUSETTS INST OF TECH	P G TAYLOR	GSFC	M MCNUTT	NAG 5 2928	296
32	MASSACHUSETTS INST OF TECH	P TAYLOR	GSFC	D HERRING	NAG 5 3550	296
32	MASSACHUSETTS INST OF TECH	T A MAXWELL	HQ	R BURNS	NAGW 2049	302
32	MASSACHUSETTS INST OF TECH	W WILDES	GSFC	A NEILL	NAS 5 32353	304

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32	MICHIGAN TECHNOLOGICAL UNIV	G ASRAR	HQ	W I ROSE	NGT 30174	315
32	MICHIGAN TECHNOLOGICAL UNIV	M BALTUCK	HQ	G BLUTH	NAGW 5186	315
32	MIDDLE TENNESSEE STATE UNIV	D SIX	MSFC	D HEFFINGTON	NAG 8 1211	473
32	NORTHERN ARIZONA UNIV	P ROGERS	GSFC	D K LUCCHITTA	NAG 5 4942	26
32	NORTHWESTERN UNIV	B G BILLS	GSFC	S A STEIN	NAG 5 2003	207
32	NORTHWESTERN UNIV	P ROGERS	GSFC	D S ROBINSON	NAG 5 4354	209
32	OHIO STATE UNIV	H CARR	SSC	J D BOSSLER	NAG13 42	427
32	OHIO STATE UNIV	J SWANK	GSFC	T J WILSON	NAG 5 4250	426
32	OHIO STATE UNIV	P TAYLOR	GSFC	R VON FRESE	NAG 5 2996	425
32	OHIO STATE UNIV	R H THOMAS	HQ	T J WILSON	NAGW 4985	427
32	PENN STATE UNIV	B G BILLS	GSFC	K P FURLONG	NAG 5 1909	450
32	PENN STATE UNIV	G ASRAR	HQ	G E TUCKER	NGT 30122	456
32	PENN STATE UNIV	H BRINTON	HQ	S MACKWELL	NAGW 4520	454
32	PENN STATE UNIV	H FREY	GSFC	S FELDSTEIN	NAG 5 6207	453
32	PENN STATE UNIV	M MEYER	HQ	L R KUMP	NAGW 5184	455
32	PENN STATE UNIV	P ROGERS	GSFC	D MACKWELL	NAG 5 4165	451
32	PRINCETON UNIV	B G BILLS	GSFC	W J MORGAN	NAG 5 1940	358
32	PRINCETON UNIV	H V FREY	GSFC	J SUPPE	NAG 5 3151	358
32	PURDUE UNIV	R A LANGEL	GSFC	S KING	NAG 5 3118	226
32	RENSSELAER POLYTECH INST	J R UNDERWOOD	HQ	M J GAFFEY	NAGW 642	391
32	RENSSELAER POLYTECH INST	P G ROGERS	GSFC	M J GAFFEY	NAG 5 3725	390
32	RICE UNIV	D HOLLAND	HQ	D HEYMANN	NGT 51376	485
32	RUTGERS STATE UNIV – PISCATAWAY	J BOYCE	HQ	G F HERZOG	NAGW 3499	362
32	SAN DIEGO STATE UNIV	H CARR	SSC	D HERGERT	NCC13 16	58
32	SAN FRANCISCO STATE UNIV	J PLESCIA	HQ	T ROUSH	NAGW 2212	59
32	SAN FRANCISCO STATE UNIV	P G ROGERS	GSFC	T L ROUSH	NAG 5 4128	58
32	SAN JOSE STATE UNIV	D R KOJIRO	ARC	E METZGER	NCC 2 5135	61
32	SAN JOSE STATE UNIV	J M BOYCE	HQ	E A MAROUF	NAGW 3656	60
32	SAN JOSE STATE UNIV	P ROGERS	GSFC	D A MAROUF	NAG 5 4372	60
32	SOUTHERN ILLINOIS UNIV – CARBONDALE	P TAYLOR	GSFC	D N RAVAT	NCC 5 70	210
32	SOUTHERN ILLINOIS UNIV – CARBONDALE	R A LANGEL	GSFC	D RAVAT	NAG 5 3120	210
32	SOUTHERN METHODIST UNIV	J M BOYCE	HQ	V L HANSEN	NAGW 2915	486
32	SOUTHERN METHODIST UNIV	P ROGERS	GSFC	D L HANSEN	NAG 5 4562	486
32	SOUTHERN METHODIST UNIV	P ROGERS	GSFC	D L HANSEN	NAG 5 4609	486
32	STANFORD UNIV	D HOLLAND	HQ	J OLIGER	NGT 51285	71
32	STANFORD UNIV	D J DES MARAIS	ARC	D R LOWE	NCC 2 721	69
32	STANFORD UNIV	H FREY	GSFC	P SEGALL	NAG 5 6167	66
32	STANFORD UNIV	H V FREY	GSFC	H A ZEBKER	NAG 5 6148	66
32	STANFORD UNIV	H V FREY	GSFC	H ZEBKER	NAG 5 3441	65
32	STANFORD UNIV	J BOYCE	HQ	R ZARE	NAGW 3629	67
32	STANFORD UNIV	P G ROGERS	GSFC	G TYLER	NAG 5 3906	66
32	STANFORD UNIV	T A MAXWELL	HQ	G L TYLER	NAGW 2140	67
32	STATE UNIV OF NY – ALBANY	H C BRINTON	HQ	J DELANO	NAGW 3357	393
32	STATE UNIV OF NY – BUFFALO	B CAMPBELL	GSFC	D GRANT	NAG 5 4569	394
32	STATE UNIV OF NY – BUFFALO	G BILLS	GSFC	BURSIK	NAG 5 2273	394
32	STATE UNIV OF NY – BUFFALO	H V FREY	GSFC	M BARSIK	NAG 5 3142	394
32	STATE UNIV OF NY – BUFFALO	STOUTSENBERGER	GSFC	N SHERIDAN	NGT 5 70006	395
32	STATE UNIV OF NY – STONY BROOK	J R UNDERWOOD	HQ	J LISSAUER	NAGW 1107	397
32	STATE UNIV OF NY – STONY BROOK	J T BERGSTRALH	HQ	J L FOX	NAGW 3731	397
32	STATE UNIV OF NY – STONY BROOK	P G ROGERS	HQ	M SIMON	NAGW 4834	397
32	STATE UNIV OF NY COL – PLATTSBURGH	J BOYCE	HQ	G FLYNN	NAGW 3587	398
32	STATE UNIV OF NY COL – PURCHASE	P ROGER	GSFC	D GRANT	NAG 5 4157	399
32	STATE UNIV OF NY COL	D K RUSSELL	HQ	M F SHERIDAN	NGT 70410	399
32	STATE UNIV OF NY COL	P G ROGERS	GSFC	D S KING	NAG 5 4544	399
32	STATE UNIV OF NY COL	T A MAXWELL	HQ	J S KING	NAGW 2259	399
32	TEXAS A&M UNIV	R WILLIAMS	HQ	K H PRICE	NAGW 3963	490
32	THE AMERICAN UNIV	G A SOFFEN	GSFC	R B KAY	NGT 5 50003	163
32	THE UNIV OF CENTRAL FLORIDA	J QUINN	KSC	C GEIGER	NAG10 215	174
32	UNIV HOUSTON	J BOYCE	HQ	A REID	NAGW 3623	495
32	UNIV OF MINN – MINNEAPOLIS–ST PAUL	J BOYCE	HQ	A NIER	NAGW 3610	331
32	UNIV OF MINN – MINNEAPOLIS–ST PAUL	J M BOYCE	HQ	D L KOHISTEDT	NAGW 3102	330
32	UNIV OF MINN – MINNEAPOLIS–ST PAUL	P ROGERS	GSFC	D L KOHLSTEDT	NAG 5 4956	329
32	UNIV OF TEXAS–PAN AMERICAN	N G ROBERTSON	JSC	E LEMASTER	NAG 9 857	497
32	UNIV	C P MCKAY	ARC	R A WHARTON	NCC 2 5146	347
32	UNIV	R H THOMAS	GSFC	N LANCASTER	NAG 5 3987	347
32	UNIV BRITISH COLUMBA	J M BOYCE	HQ	S W KIEFFER	NAGW 3792	572

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32	UNIV OF ALASKA - FAIRBANKS	R H THOMAS	HQ	F FREYMUELLER	NAGW 5077	20
32	UNIV OF ALASKA - FAIRBANKS	S C COHEN	GSFC	J FREYMUELLER	NCC 5 89	21
32	UNIV OF ARIZONA	G ASRAR	HQ	C V HAYNES	NGT 30173	39
32	UNIV OF ARIZONA	H C BRINTON	HQ	M J DRAKE	NAGW 3348	36
32	UNIV OF ARIZONA	H C BRINTON	HQ	W BOYNTON	NAGW 3373	36
32	UNIV OF ARIZONA	J BOYCE	HQ	A S MCWEN	NAGW 5118	38
32	UNIV OF ARIZONA	J BOYCE	HQ	T SWINDLE	NAGW 3611	36
32	UNIV OF ARIZONA	J K ALEXANDER	HQ	C P SONETT	NAGW 3084	36
32	UNIV OF ARIZONA	J M BOYCE	HQ	A J JULL	NAGW 3614	36
32	UNIV OF ARIZONA	J M BOYCE	HQ	C C PORCO	NAGW 3411	36
32	UNIV OF ARIZONA	J M BOYCE	HQ	J GANGULY	NAGW 3638	36
32	UNIV OF ARIZONA	J M BOYCE	HQ	R G STROM	NAGW 2021	35
32	UNIV OF ARIZONA	J R UNDERWOOD	HQ	H J MELOSH	NAGW 428	34
32	UNIV OF ARIZONA	J R UNDERWOOD	HQ	R J GREENBERG	NAGW 1029	34
32	UNIV OF ARIZONA	J T BERGSTRALH	HQ	R G STROM	NAGW 3705	37
32	UNIV OF ARIZONA	M MEYER	HQ	H MELOSH	NAGW 5159	38
32	UNIV OF ARIZONA	N MAYNARD	HQ	D LIVERMAN	NAGW 4884	38
32	UNIV OF ARIZONA	P G ROGERS	GSFC	A MCEWEN	NAG 5 3632	30
32	UNIV OF ARIZONA	P G ROGERS	GSFC	J I LUNINE	NAG 5 4051	31
32	UNIV OF ARIZONA	P G ROGERS	GSFC	R G STROM	NAG 5 3914	30
32	UNIV OF ARIZONA	P G ROGERS	GSFC	R GREENBERG	NAG 5 3631	30
32	UNIV OF ARIZONA	P G ROGERS	GSFC	V R BAKER	NAG 5 3630	30
32	UNIV OF ARIZONA	P ROGERS	GSFC	D BENZ	NAG 5 4149	31
32	UNIV OF ARIZONA	P ROGERS	GSFC	D C PORCO	NAG 5 4451	32
32	UNIV OF ARIZONA	P ROGERS	GSFC	D H BROWN	NAG 5 3796	30
32	UNIV OF ARIZONA	R WILLIAMS	HQ	W BENZ	NAGW 3904	37
32	UNIV OF ARIZONA	T A MAXWELL	HQ	E H LEVY	NAGW 2176	35
32	UNIV OF ARK MAIN CAMP - FAYETTEVILLE	H C BRINTON	HQ	D SEARS	NAGW 3479	43
32	UNIV OF ARK MAIN CAMP - FAYETTEVILLE	H C BRINTON	HQ	D SEARS	NAGW 3519	43
32	UNIV OF CALIFORNIA - BERKELEY	G ASRAR	HQ	W ALVAREZ	NGT 30191	85
32	UNIV OF CALIFORNIA - BERKELEY	J BOYCE	HQ	K NISHIIZUMI	NAGW 3514	80
32	UNIV OF CALIFORNIA - BERKELEY	J UNDERWOOD	HQ	R JEANLOZ	NAGW 604	79
32	UNIV OF CALIFORNIA - BERKELEY	M BALTUCK	HQ	J KIRCHNER	NGT 30327	85
32	UNIV OF CALIFORNIA - BERKELEY	P G ROGERS	GSFC	R JEANLOZ	NAG 5 3655	76
32	UNIV OF CALIFORNIA - BERKELEY	R A LANGEL	GSFC	D STARK	NAG 5 3919	77
32	UNIV OF CALIFORNIA - DAVIS	H V FREY	GSFC	J MINSTER	NAG 5 3001	88
32	UNIV OF CALIFORNIA - LOS ANGELES	B BILLS	GSFC	G SCHUBERT	NAG 5 4628	98
32	UNIV OF CALIFORNIA - LOS ANGELES	C HIX	JPL	D A PAUGE	NGT 51273	104
32	UNIV OF CALIFORNIA - LOS ANGELES	H BRINTON	HQ	D PAIGE	NAGW 4327	102
32	UNIV OF CALIFORNIA - LOS ANGELES	H C BRINTON	HQ	P H WARREN	NAGW 3308	101
32	UNIV OF CALIFORNIA - LOS ANGELES	J BOYCE	HQ	J WASSON	NAGW 3535	101
32	UNIV OF CALIFORNIA - LOS ANGELES	J D RUMNEL	HQ	J W SCHOPF	NAGW 2147	100
32	UNIV OF CALIFORNIA - LOS ANGELES	J T BERGSTRALH	HQ	D L BINDSCHADLER	NAGW 3484	101
32	UNIV OF CALIFORNIA - LOS ANGELES	J T BERGSTRALH	HQ	G SCHUBERT	NAGW 3546	101
32	UNIV OF CALIFORNIA - LOS ANGELES	M BALTUCK	HQ	G SCHUBERT	NAGW 2646	100
32	UNIV OF CALIFORNIA - LOS ANGELES	P G ROGERS	GSFC	D A PAIGE	NAG 5 3864	97
32	UNIV OF CALIFORNIA - LOS ANGELES	P G ROGERS	GSFC	G SCHUBERT	NAG 5 3863	97
32	UNIV OF CALIFORNIA - LOS ANGELES	P G ROGERS	GSFC	W M KAULA	NAG 5 3956	97
32	UNIV OF CALIFORNIA - LOS ANGELES	P ROGERS	GSFC	D A PAIGE	NAG 5 4449	98
32	UNIV OF CALIFORNIA - LOS ANGELES	P ROGERS	HQ	K D MCKEEGAN	NAGW 4112	102
32	UNIV OF CALIFORNIA - LOS ANGELES	R E MURPHY	HQ	W M KAULA	NAGW 2997	100
32	UNIV OF CALIFORNIA - LOS ANGELES	T A MAXWELL	HQ	G SCHUBERT	NAGW 2086	100
32	UNIV OF CALIFORNIA - LOS ANGELES	T A MAXWELL	HQ	W H KAULA	NAGW 2085	100
32	UNIV OF CALIFORNIA - SAN DIEGO	B A WIELICKI	LARC	V RAMANATHAN	NAG 1 1259	106
32	UNIV OF CALIFORNIA - SAN DIEGO	B CAMPBELL	GSFC	P L BADA	NAG 5 4938	110
32	UNIV OF CALIFORNIA - SAN DIEGO	B G BILLS	GSFC	D C AGNEW	NAG 5 1932	107
32	UNIV OF CALIFORNIA - SAN DIEGO	B G BILLS	GSFC	F N SPIESS	NAG 5 1914	106
32	UNIV OF CALIFORNIA - SAN DIEGO	B G BILLS	GSFC	J B MINSTER	NAG 5 1910	106
32	UNIV OF CALIFORNIA - SAN DIEGO	B G BILLS	GSFC	Y BOCK	NAG 5 1917	107
32	UNIV OF CALIFORNIA - SAN DIEGO	H C BRINTON	HQ	G W LUGMAIR	NAGW 3285	111
32	UNIV OF CALIFORNIA - SAN DIEGO	H C BRINTON	HQ	K MARTI	NAGW 3428	111
32	UNIV OF CALIFORNIA - SAN DIEGO	H FREY	GSFC	H JOHNSON	NCC 5 230	114
32	UNIV OF CALIFORNIA - SAN DIEGO	H V FREY	GSFC	D C AGNEW	NAG 5 6149	110
32	UNIV OF CALIFORNIA - SAN DIEGO	H V FREY	GSFC	D T SANDWELL	NAG 5 5176	110
32	UNIV OF CALIFORNIA - SAN DIEGO	H V FREY	GSFC	J B RAND	NAG 5 6150	110
32	UNIV OF CALIFORNIA - SAN DIEGO	J BOYCE	HQ	M THIEMANS	NAGW 3551	111

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32	UNIV OF CALIFORNIA – SAN DIEGO	M BALTUCK	HQ	C CONSTABLE	NAGW 3932	112
32	UNIV OF CALIFORNIA – SAN DIEGO	M MEYER	GSFC	D KERRIDGE	NAG 5 4666	110
32	UNIV OF CALIFORNIA – SAN DIEGO	P T TAYLOR	GSFC	G E BACKUS	NAG 5 2967	107
32	UNIV OF CALIFORNIA – SAN DIEGO	P TAYLOR	GSFC	C CONSTABLE	NAG 5 2968	107
32	UNIV OF CALIFORNIA – SANTA BARBARA	G ASRAR	HQ	T DUNNE	NGT 30357	119
32	UNIV OF CALIFORNIA – SANTA BARBARA	H V FREY	GSFC	O A CHADWICK	NAG 5 3024	116
32	UNIV OF CALIFORNIA – SANTA BARBARA	J D RUMMEL	HQ	S M AWRAMIK	NAGW 1948	117
32	UNIV OF CALIFORNIA – SANTA BARBARA	M MEYER	GSFC	D M AWRAMIK	NAG 5 4460	116
32	UNIV OF CALIFORNIA – SANTA BARBARA	P G ROGERS	GSFC	S J PEALE	NAG 5 3646	116
32	UNIV OF CALIFORNIA – SANTA BARBARA	T BRAKKE	GSFC	D DOZLER	NAS 5 31710	118
32	UNIV OF CALIFORNIA – SANTA CRUZ	A NOVOTNY	HQ	R S ANDERSON	NGT 51220	122
32	UNIV OF CALIFORNIA – SANTA CRUZ	H V FREY	GSFC	R ANDERSON	NAG 5 3005	120
32	UNIV OF CHARLESTON –WEST VIRGINIA	D A MORRISON	JSC	C COOMBS	NGT 9 24	555
32	UNIV OF CHICAGO	C R TALLEY	MSFC	J J SEPKOSKI	NAGW 1693	213
32	UNIV OF CHICAGO	H C BRINTON	HQ	A DAVIS	NAGW 3384	214
32	UNIV OF CHICAGO	H C BRINTON	HQ	I STEELE	NAGW 3416	214
32	UNIV OF CHICAGO	H C BRINTON	HQ	L GROSSMAN	NAGW 3340	214
32	UNIV OF CHICAGO	H C BRINTON	HQ	R LEWIS	NAGW 3342	214
32	UNIV OF CHICAGO	J BOYCE	HQ	S SUTTON	NAGW 3651	214
32	UNIV OF CHICAGO	P R MAHAFFY	HQ	T ECONOMU	NAGW 1847	213
32	UNIV OF CINCINNATI	J D RUMMEL	HQ	A MILLER	NAGW 3307	432
32	UNIV OF COLORADO – BOULDER	A T CHANG	GSFC	R L ARMSTRONG	NAG 5 4506	138
32	UNIV OF COLORADO – BOULDER	B G BILLS	GSFC	J B RUNDLE	NAG 5 2353	133
32	UNIV OF COLORADO – BOULDER	B G BILLS	GSFC	K LARSON	NAG 5 1908	132
32	UNIV OF COLORADO – BOULDER	D J HARDING	GSFC	R BILHAM	NAG 5 3072	134
32	UNIV OF COLORADO – BOULDER	G ASRAR	GSFC	J B RUNDLE	NGT 5 30025	150
32	UNIV OF COLORADO – BOULDER	G ASRAR	HQ	A F GOETZ	NGT 30175	147
32	UNIV OF COLORADO – BOULDER	H FREY	GSFC	K LARSON	NAG 5 6147	140
32	UNIV OF COLORADO – BOULDER	H V FREY	GSFC	J B RUNDLE	NAG 5 5168	140
32	UNIV OF COLORADO – BOULDER	H V FREY	GSFC	K MUELLER	NAG 5 3320	135
32	UNIV OF COLORADO – BOULDER	J R UNDERWOOD	HQ	B JAKOSKY	NAGW 771	142
32	UNIV OF COLORADO – BOULDER	M MEYER	HQ	B M JAKOSKY	NAGW 5036	146
32	UNIV OF COLORADO – BOULDER	P G ROGERS	GSFC	B M JAKOSKY	NAG 5 3763	136
32	UNIV OF COLORADO – BOULDER	P ROGERS	GSFC	D R STEWART	NAG 5 4163	137
32	UNIV OF COLORADO – BOULDER	P T TAYLOR	GSFC	J WAHR	NAG 5 3143	134
32	UNIV OF COLORADO – BOULDER	R E MURPHY	HQ	J M WAHR	NAGW 2985	143
32	UNIV OF COLORADO – BOULDER	R WILLIAMS	HQ	G STEWART	NAGW 3961	144
32	UNIV OF FLORIDA	P ROGERS	GSFC	D GUSTAFSON	NAG 5 4996	177
32	UNIV OF FLORIDA	P ROGERS	HQ	D F DERMOTT	NAG 5 4531	176
32	UNIV OF FLORIDA	T A MAXWELL	HQ	S F DERMOTT	NAGW 1923	177
32	UNIV OF HAWAII – MANOA	C PILCHER	HQ	G J TAYLOR	NAGW 3537	200
32	UNIV OF HAWAII – MANOA	D HOLLAND	HQ	K KEIL	NGT 51652	203
32	UNIV OF HAWAII – MANOA	G ASRAR	HQ	J R CHRISTIAN	NGT 30104	202
32	UNIV OF HAWAII – MANOA	H C BRINTON	HQ	F P FANALE	NAGW 3294	200
32	UNIV OF HAWAII – MANOA	H C BRINTON	HQ	K KEIL	NAGW 3281	200
32	UNIV OF HAWAII – MANOA	H F FREY	GSFC	P J MOUGINIS–MARK	NAG 5 3000	198
32	UNIV OF HAWAII – MANOA	J BOYCE	HQ	P LUCEY	NAGW 4909	201
32	UNIV OF HAWAII – MANOA	J M BOYCE	HQ	G J TAYLOR	NAGW 3684	200
32	UNIV OF HAWAII – MANOA	J M BOYCE	HQ	T B MCCORD	NAGW 3218	200
32	UNIV OF HAWAII – MANOA	J R UNDERWOOD	HQ	P M MARK	NAGW 437	199
32	UNIV OF HAWAII – MANOA	J T BERGSTRALH	HQ	D BERCOVICI	NAGW 3531	200
32	UNIV OF HAWAII – MANOA	J T BERGSTRALH	HQ	P J MOUGINIS–MARK	NAGW 3500	200
32	UNIV OF HAWAII – MANOA	J UNDERWOOD JR	HQ	J F BELL	NAGW 712	199
32	UNIV OF HAWAII – MANOA	J UNDERWOOD	HQ	B R HAWKE	NAGW 237	199
32	UNIV OF HAWAII – MANOA	M BALTUCK	HQ	P J MARK	NAGW 1162	199
32	UNIV OF HAWAII – MANOA	P G ROGERS	GSFC	E R HAWKE	NAG 5 3875	199
32	UNIV OF HAWAII – MANOA	R H THOMAS	HQ	P MOUGINIS–MARK	NAGW 4965	202
32	UNIV OF HAWAII – MANOA	T A MAXWELL	HQ	B R HAWKE	NAGW 1053	199
32	UNIV OF HAWAII – MANOA	T A MAXWELL	HQ	P G LUCEY	NAGW 1421	199
32	UNIV OF HAWAII – MANOA	T A MAXWELL	HQ	T B MCCORD	NAGW 2174	199
32	UNIV OF HAWAII – MANOA	TA MAXWELL	HQ	T OWEN	NAGW 2153	199
32	UNIV OF HAWAII SYSTEM	P G ROGERS	GSFC	B R HAWKE	NAG 5 3635	203
32	UNIV OF HAWAII SYSTEM	P G ROGERS	GSFC	F P FANALE	NAG 5 4150	204
32	UNIV OF HAWAII SYSTEM	P G ROGERS	GSFC	J F BELL	NAG 5 3625	203
32	UNIV OF HAWAII SYSTEM	P G ROGERS	GSFC	P G LUCEY	NAG 5 3766	204
32	UNIV OF HAWAII SYSTEM	P ROGERS	GSFC	P MOUGINIS–MARK	NAG 5 4127	204

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32	UNIV OF HAWAII SYSTEM	R H THOMAS	GSFC	P MOUGINIS-MARK	NAG 5 4257	204
32	UNIV OF MARYLAND - COLLEGE PARK	B G BILLS	GSFC	H PAIK	NAG 5 3104	265
32	UNIV OF MARYLAND - COLLEGE PARK	J BOYCE	HQ	R WALKER	NAGW 3625	272
32	UNIV OF MARYLAND - COLLEGE PARK	J M BOYCE	HQ	M W SCHAEFER	NAGW 3588	272
32	UNIV OF MARYLAND - COLLEGE PARK	J T BERGSTRALH	HQ	M J A	NAGW 1813	271
32	UNIV OF MASSACHUSETTS - AMHERST	D G SICKOREZ	JSC	K A COVEY	NAG 9 848	310
32	UNIV OF MASSACHUSETTS - AMHERST	H BRINTON	HQ	G MCGILL	NAGW 4263	310
32	UNIV OF MASSACHUSETTS - AMHERST	J D RUMMEL	HQ	W M IRVINE	NAGW 436	310
32	UNIV OF MASSACHUSETTS - AMHERST	P G ROGERS	GSFC	G E MCGILL	NAG 5 3789	309
32	UNIV OF MASSACHUSETTS - AMHERST	P ROGERS	GSFC	D E MCGILL	NAG 5 4373	309
32	UNIV OF MASSACHUSETTS - AMHERST	P ROGERS	GSFC	G MCGILL	NAG 5 4999	310
32	UNIV OF MASSACHUSETTS - AMHERST	T A MAXWELL	HQ	G E MCGILL	NAGW 1965	310
32	UNIV OF MEMPHIS	H V FREY	GSFC	M ELLIS	NAG 5 2995	475
32	UNIV OF MIAMI	B G BILLS	GSFC	C HARRISON	NAG 5 1945	181
32	UNIV OF MIAMI	B G BILLS	GSFC	T H DIXON	NAG 5 2207	181
32	UNIV OF MIAMI	B G BILLS	GSFC	T H DIXON	NAG 5 2208	181
32	UNIV OF MIAMI	B G BILLS	GSFC	T H DIXON	NAG 5 2209	181
32	UNIV OF MIAMI	H V FREY	GSFC	T DIXON	NAG 5 3036	181
32	UNIV OF MIAMI	P T TAYLOR	GSFC	C HARRISON	NAG 5 2969	181
32	UNIV OF MIAMI	R H THOMAS	GSFC	T H DIXON	NAG 5 4025	181
32	UNIV OF MIAMI	R H THOMAS	HQ	T H DIXON	NAGW 4999	182
32	UNIV OF MISSOURI - COLUMBIA	M BALTUCK	HQ	J F ENGEH	NAGW 3302	337
32	UNIV OF NEVADA - RENO	R H THOMAS	HQ	D LANCASTER	NAGW 4976	348
32	UNIV OF NEVADA - RENO	R WILLIAMS	HQ	R A SCHULTZ	NAGW 4151	348
32	UNIV OF NEW MEXICO	H C BRINTON	HQ	J J PAPIKE	NAGW 3347	368
32	UNIV OF NEW MEXICO	J BOYCE	HQ	F RIETMEIJER	NAGW 3626	368
32	UNIV OF OREGON - EUGENE	B G BILLS	GSFC	E D HUMPHREYS	NAG 5 1903	443
32	UNIV OF PITTSBURGH	P G ROGERS	GSFC	D A CROWN	NAG 5 3642	459
32	UNIV OF PITTSBURGH	P G ROGERS	GSFC	D A CROWN	NAG 5 4037	459
32	UNIV OF PITTSBURGH	P G ROGERS	GSFC	S W HAPKE	NAG 5 3723	459
32	UNIV OF PITTSBURGH	P ROGERS	HQ	D A CROWN	NAGW 4186	460
32	UNIV OF PITTSBURGH	R J WILLIAMS	HQ	D CROWN	NAGW 3842	460
32	UNIV OF PITTSBURGH	T A MAXWELL	HQ	B HAPKE	NAGW 2060	460
32	UNIV OF SOUTH CAROLINA-COLUMBIA	J BOYCE	HQ	J SHERVAIS	NAGW 3637	470
32	UNIV OF SOUTHERN CALIFORNIA	M BALTUCK	HQ	D BURBANK	NAGW 3762	125
32	UNIV OF TENNESSEE - KNOXVILLE	H C BRINTON	HQ	L TAYLOR	NAGW 3453	476
32	UNIV OF TENNESSEE - KNOXVILLE	S GOLDSTEIN	JSC	H V MCSWEEN	NGT 50870	477
32	UNIV OF TEXAS - AUSTIN	A NURRIDDIN	GSFC	C WILSON	NGT 5 50004	509
32	UNIV OF TEXAS - AUSTIN	A SMITH	GSFC	C R WILSON	NAG 5 1929	502
32	UNIV OF TEXAS - AUSTIN	B G BILLS	GSFC	B TAPLEY	NAG 5 1939	502
32	UNIV OF TEXAS - AUSTIN	B G BILLS	GSFC	R E SCHUTZ	NAG 5 1936	502
32	UNIV OF TEXAS - AUSTIN	B G BILLS	GSFC	R S NEREM	NAG 5 3371	503
32	UNIV OF TEXAS - AUSTIN	H FREY	GSFC	M CHENG	NAG 5 5170	504
32	UNIV OF TEXAS - AUSTIN	H V FREY	GSFC	R R EM	NAG 5 5171	504
32	UNIV OF TEXAS - AUSTIN	J BERGSTRALH	HQ	D GOLDSTEIN	NAGW 5230	507
32	UNIV OF TEXAS - AUSTIN	J M SAUBER	GSFC	R S NEREM	NAG 5 3372	503
32	UNIV OF TEXAS - AUSTIN	J T BERGSTRALH	HQ	C K SHUM	NAGW 3505	506
32	UNIV OF TEXAS - DALLAS	D MCKAY	JSC	D H HOFFMAN	NAG 9 885	510
32	UNIV OF TEXAS - EL PASO	D K RUSSELL	HQ	K MARSAGLIA	NGT 70350	512
32	UNIV OF UTAH	B G BILLS	GSFC	D CURREY	NAG 5 2055	514
32	UNIV OF VIRGINIA	D J HARDING	GSFC	H H SHUGART	NAG 5 3112	534
32	UNIV OF VIRGINIA	P G ROGERS	GSFC	A D HOWARD	NAG 5 3931	535
32	UNIV OF VIRGINIA	P G ROGERS	GSFC	R E JOHNSON	NAG 5 3633	534
32	UNIV OF VIRGINIA	P ROGERS	GSFC	D A BARAGIOLA	NAG 5 4332	535
32	UNIV OF WASHINGTON	A GHASSEM	HQ	T DUNNE	NGT 30338	552
32	UNIV OF WASHINGTON	H C BRINTON	HQ	D B BROWNLEE	NAGW 3287	549
32	UNIV OF WASHINGTON	H C BRINTON	HQ	I S MCCALLUS	NAGW 3352	549
32	UNIV OF WASHINGTON	H FREY	GSFC	A GILLESPIE	NAG 5 6067	548
32	UNIV OF WASHINGTON	M BALTUCK	HQ	S C PORTER	NGT 30246	552
32	UNIV OF WISCONSIN - MADISON	B CAMPBELL	GSFC	D A SROMOVSKY	NAG 5 6248	562
32	UNIV OF WISCONSIN - MADISON	H CARR	SSC	T M LILLENSAND	NCC13 17	565
32	UNIV OF WISCONSIN - MADISON	H M GOODMAN	MSFC	D L SMITH	NAS 8 38499	565
32	UNIV OF WISCONSIN - MADISON	M BALTUCK	HQ	W P MENZEL	NAGW 3318	563
32	WASHINGTON STATE UNIV	P G ROGERS	GSFC	D HUDSON	NAG 5 4035	554
32	WASHINGTON UNIV	B CAMPBELL	GSFC	D FEGLEY	NAG 5 6125	340
32	WASHINGTON UNIV	H C BRINTON	HQ	C M HOHENBERG	NAGW 3344	341

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32	WASHINGTON UNIV	H V FREY	GSFC	R E ARVIDSON	NAG 5 2982	339
32	WASHINGTON UNIV	J BOYCE	HQ	F PODESEK	NAGW 3634	341
32	WASHINGTON UNIV	J BOYCE	HQ	R M WALKER	NAGW 3371	341
32	WASHINGTON UNIV	J UNDERWOOD	HQ	W B MCKINNON	NAGW 432	340
32	WASHINGTON UNIV	M BALTUCK	HQ	R E ARVIDSON	NAGW 1358	340
32	WASHINGTON UNIV	P G ROGERS	GSFC	R E ARVIDSON	NAG 5 3870	339
32	WASHINGTON UNIV	P G ROGERS	GSFC	W B MCKINNON	NAG 5 3657	339
32	WASHINGTON UNIV	P ROGERS	GSFC	D J PHILLIPS	NAG 5 4448	339
32	WASHINGTON UNIV	T A MAXWELL	HQ	R E ARVIDSON	NAGW 1872	340
32	WASHINGTON UNIV	W V JONES	HQ	R J PHILLIPS	NAGW 3024	341
32	WELLESLEY COLLEGE	J UNDERWOOD	HQ	R G FRENCH	NAGW 1368	311
32	WELLESLEY COLLEGE	P G ROGERS	GSFC	R G FRENCH	NAG 5 4046	311
32	YALE UNIV	H BRINTON	HQ	M SCHAEFER	NAGW 5069	156
33	BRIGHAM YOUNG UNIV	G ASRAR	HQ	D LONG	NGT 30198	514
33	CTR FOR ENVIR & ESTU STUDIES U OF MD	A C JANETOS	HQ	L W HARDING	NAGW 3891	250
33	CTR FOR ENVIR & ESTU STUDIES U OF MD	A C JANETOS	HQ	T R FISHER	NAGW 3947	250
33	CTR FOR ENVIR & ESTU STUDIES U OF MD	C MCCLAIN	GSFC	D G CAPONE	NAS 5 97131	250
33	COLUMBIA UNIV	A J BUSALACCHI	GSFC	D CHEN	NCC 5 225	378
33	COLUMBIA UNIV	G ASRAR	GSFC	B P SCHOSSER	NGT 5 30016	379
33	COLUMBIA UNIV	G ASRAR	HQ	A L GORDON	NGT 30217	379
33	COLUMBIA UNIV	G ASRAR	HQ	G BOND	NGT 30186	378
33	COLUMBIA UNIV	G S LAGERLOEF	HQ	M A CANE	NAGW 916	376
33	COLUMBIA UNIV	J S THEON	HQ	W S BROECKER	NGT 30277	379
33	COLUMBIA UNIV	M R LEWIS	HQ	J K BISHOP	NAGW 2189	377
33	COLUMBIA UNIV	N MAYNARD	HQ	D MARRA	NAGW 5189	378
33	COLUMBIA UNIV	R H THOMAS	HQ	S S JACOBS	NAGW 3362	377
33	FLA INTERNATIONAL UNIV	K R ARRIGO	GSFC	L L RICHARDSON	NAG 5 3124	166
33	FLORIDA STATE UNIV	E J LINDSTROM	GSFC	W DEWAR	NAG 5 4813	172
33	FLORIDA STATE UNIV	G S LAGERLOEF	HQ	J J O	NAGW 985	172
33	FLORIDA STATE UNIV	GASRAR	HQ	J CHANTON	NGT 30170	173
33	FLORIDA STATE UNIV	N MAYNARD	HQ	W K DEWAR	NAGW 4883	173
33	FLORIDA STATE UNIV	R E MURPHY	HQ	R IVERSON	NAGW 3495	172
33	HAMPTON UNIV	A JOYCE	SSC	B A ADESENYA	NAG13 44	525
33	HOFSTRA UNIV	B C DOUGLAS	GSFC	D E WEISSMAN	NAG 5 4678	388
33	HOFSTRA UNIV	B C DOUGLAS	HQ	D WEISSMAN	NAGW 5174	388
33	JOHNS HOPKINS UNIV	S R LONG	GSFC	O PHILLIPS	NAG 5 5047	254
33	LOUISIANA STATE UNIV – BATON ROUGE	A JOYCE	SSC	B A MCKEE	NGT 51197	244
33	MASSACHUSETTS INST OF TECH	B C DOUGLAS	GSFC	C I WUNSCH	NAG 5 3724	297
33	MASSACHUSETTS INST OF TECH	B C DOUGLAS	GSFC	P W RIZZOLI	NAG 5 4655	298
33	MASSACHUSETTS INST OF TECH	B C DOUGLAS	HQ	C WUNSCH	NAGW 5245	304
33	MASSACHUSETTS INST OF TECH	F MULLER-KARGER	HQ	C CHRYSSOSTOMIAIS	NGT 30232	306
33	MASSACHUSETTS INST OF TECH	G ASRAR	HQ	C WUNSCH	NGT 30309	306
33	MASSACHUSETTS INST OF TECH	J A YODER	GSFC	S W CHISHOLM	NAG 5 3727	297
33	MASSACHUSETTS INST OF TECH	J G RICHMAN	HQ	C WUNSCH	NAGW 1048	301
33	MASSACHUSETTS INST OF TECH	R A SCHIFFER	HQ	E A BOYLE	NGT 30284	306
33	NORTH CAROLINA STATE UNIV	D E WICKLAND	HQ	D KAMYKOWSKI	NAGW 3575	408
33	OLD DOMINION UNIV	A C JANETOS	HQ	E HOFMANN	NGT 30354	530
33	OLD DOMINION UNIV	M E MAIDEN	HQ	E SMITH	NAGW 3981	529
33	OLD DOMINION UNIV	R E MURPHY	HQ	E HOFMANN	NAGW 3550	529
33	OREGON STATE UNIV	B C DOUGLAS	GSFC	A F BENNET	NAG 5 4432	440
33	OREGON STATE UNIV	B C DOUGLAS	HQ	D CHELTON	NAGW 5031	441
33	OREGON STATE UNIV	B DOUGLAS	GSFC	D F BENNET	NAG 5 3963	440
33	OREGON STATE UNIV	C MCCLAIN	GSFC	J R ZANEVELD	NAS 5 97129	442
33	OREGON STATE UNIV	D ADAMEC	HQ	D B CHILTON	NAGW 3510	440
33	OREGON STATE UNIV	D E WICKLAND	HQ	R ZANEVELD	NAGW 3580	441
33	OREGON STATE UNIV	G ASRAR	HQ	B SHERR	NGT 30188	442
33	OREGON STATE UNIV	H OSEROFF	GSFC	M R ABBOTT	NAS 5 31360	441
33	OREGON STATE UNIV	J A YODER	GSFC	M R ABBOTT	NAG 5 4947	440
33	OREGON STATE UNIV	M BALTUCK	HQ	A F BENNETT	NAGW 4680	441
33	OREGON STATE UNIV	M BALTUCK	HQ	M R ABBOTT	NAGW 4596	441
33	OREGON STATE UNIV	R ASCHIFFER	HQ	M FREILICH	NGT 30263	442
33	OREGON STATE UNIV	R H THOMAS	HQ	G LEVY	NAGW 4973	441
33	OREGON STATE UNIV	T W HALSTEAD	HQ	E B SHERR	NAGW 3737	441
33	PRINCETON UNIV	A C JANETOS	HQ	S W PASCALA	NGT 30264	360
33	PRINCETON UNIV	J STHEON	HQ	S G PHILANDER	NGT 30288	360

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33	PRINCETON UNIV	N MAYNARD	GSFC	J SARMIENTO	NAG 5 3510	359
33	RUTGERS STATE UNIV – PISCATAWAY	G ASRAR	HQ	R G LATHROP	NGT 30351	362
33	SAN DIEGO STATE UNIV	C R MCCLAIN	GSFC	J L MUELLER	NAS 5 97126	58
33	SAN DIEGO STATE UNIV	M R LEWIS	HQ	C C TREES	NAGW 2154	58
33	SAN JOSE STATE UNIV	C MCCLAIN	GSFC	W BROENKOW	NAS 5 31746	60
33	STANFORD UNIV	J S THEON	HQ	U S INAN	NGT 30281	71
33	TEXAS A&M UNIV	B C DOUGLAS	HQ	W D NOWLIN	NAGW 5032	490
33	TEXAS A&M UNIV	C LIVINGSTON	HQ	R H STEWART	NAGW 1979	490
33	TEXAS A&M UNIV	J A KAYE	HQ	N W TINDALE	NAGW 3652	490
33	TEXAS A&M UNIV	N MAYNARD	GSFC	N W TINDALE	NAG 5 3753	488
33	TEXAS A&M UNIV	R A SCHIFFER	HQ	R H STEWART	NGT 30243	491
33	UNIV OF ALASKA – FAIRBANKS	C MCCLAIN	GSFC	D L ESLINGER	NAS 5 97133	21
33	UNIV OF ALASKA – FAIRBANKS	C MCCLAIN	GSFC	K STAMNES	NAS 5 97138	21
33	UNIV OF ALASKA – FAIRBANKS	C MCCLAIN	GSFC	K STAMNES	NAS 5 97139	21
33	UNIV OF ALASKA – FAIRBANKS	R H THOMAS	HQ	D L JOHNSON	NAGW 5205	20
33	UNIV OF ALASKA – FAIRBANKS	R H THOMAS	HQ	M JEFFRIES	NAGW 4969	20
33	UNIV OF ARIZONA	D E WICKLAND	HQ	P N SLATER	NAGW 3543	36
33	UNIV OF CALIFORNIA – IRVINE	S R LONG	GSFC	J N YANG	NAG 5 5149	93
33	UNIV OF CALIFORNIA – LOS ANGELES	B C DOUGLAS	GSFC	J C MCWILLIAMS	NAG 5 3982	97
33	UNIV OF CALIFORNIA – LOS ANGELES	B C DOUGLAS	HQ	J MC WILLIAMS	NAGW 5029	103
33	UNIV OF CALIFORNIA – SAN DIEGO	A J BUSALACCHI	GSFC	F VALERO	NGT 5 42	114
33	UNIV OF CALIFORNIA – SAN DIEGO	C MCCLAIN	GSFC	R FOUIN	NAS 5 97135	113
33	UNIV OF CALIFORNIA – SAN DIEGO	C R MCCLAIN	GSFC	B G MITCHELL	NAS 5 97130	113
33	UNIV OF CALIFORNIA – SAN DIEGO	D E WICKLAND	HQ	M VERNET	NAGW 3795	112
33	UNIV OF CALIFORNIA – SAN DIEGO	G ASRAR	GSFC	B MITCHELL	NGT 5 30036	114
33	UNIV OF CALIFORNIA – SAN DIEGO	J A YODER	GSFC	R KEELING	NAG 5 6179	110
33	UNIV OF CALIFORNIA – SAN DIEGO	J C DODGE	HQ	J J SIMPSON	NAGW 2964	111
33	UNIV OF CALIFORNIA – SAN DIEGO	M BALTUCK	HQ	B CORNUELLE	NAGW 4835	112
33	UNIV OF CALIFORNIA – SAN DIEGO	M BALTUCK	HQ	R FROUIN	NAGW 3498	111
33	UNIV OF CALIFORNIA – SAN DIEGO	R A SCHIFFER	HQ	W COLLINS	NAGW 4777	112
33	UNIV OF CALIFORNIA – SAN DIEGO	R E MURPHY	HQ	P NIILER	NAGW 3128	111
33	UNIV OF CALIFORNIA – SANTA BARBARA	C MCCLAIN	GSFC	D A SIEGEL	NAS 5 97125	118
33	UNIV OF CALIFORNIA – SANTA BARBARA	C MCCLAIN	GSFC	T D DICKEY	NAS 5 97127	119
33	UNIV OF CALIFORNIA – SANTA BARBARA	C R MCCLAIN	GSFC	D A SIEGEL	NCC 5 49	119
33	UNIV OF CALIFORNIA – SANTA BARBARA	G ASRAR	HQ	S GAINES	NGT 30339	119
33	UNIV OF CALIFORNIA – SANTA BARBARA	H OSEROFF	GSFC	Z WAN	NAS 5 31370	118
33	UNIV OF CALIFORNIA – SANTA BARBARA	M R LEWIS	HQ	R C SMITH	NAGW 290	117
33	UNIV OF CALIFORNIA – SANTA BARBARA	N MAYNARD	HQ	T D DICKEY	NAGW 5222	118
33	UNIV OF CALIFORNIA – SANTA BARBARA	R E MURPHY	HQ	D A SIEGEL	NAGW 3145	117
33	UNIV OF CALIFORNIA – SANTA BARBARA	R H THOMAS	GSFC	R C SMITH	NAG 5 4126	116
33	UNIV OF CALIFORNIA – SANTA BARBARA	R H THOMAS	HQ	R C SMITH	NAGW 4921	118
33	UNIV OF COLORADO – BOULDER	A C JANETOS	HQ	J COLE	NGT 30261	148
33	UNIV OF COLORADO – BOULDER	B DOUGLAS	GSFC	D EMERY	NAG 5 3981	136
33	UNIV OF COLORADO – BOULDER	D K RUSSELL	HQ	R D CULP	NGT 70389	149
33	UNIV OF COLORADO – BOULDER	G S LAGERLOEF	HQ	W J EMERY	NAGW 1110	142
33	UNIV OF COLORADO – BOULDER	M M MELLOTT	HQ	S ROBERTSON	NAGW 5044	146
33	UNIV OF COLORADO – BOULDER	R H THOMAS	HQ	K STEFFEN	NAGW 2158	142
33	UNIV OF COLORADO – BOULDER	S J KZETZBERG	LARC	G H BORN	NAG 1 1491	130
33	UNIV OF DELAWARE	M BALTUCK	HQ	X H YAN	NAGW 4771	157
33	UNIV OF FLORIDA	R A SCHIFFER	HQ	A J MARIANO	NAGW 4329	177
33	UNIV OF GEORGIA	G ASRAR	GSFC	B BINDER	NGT 5 30017	197
33	UNIV OF HAWAII – MANOA	A C JANETOS	HQ	J PORTER	NAGW 4190	201
33	UNIV OF HAWAII – MANOA	C MCLAIN	GSFC	J PORTER	NAS 5 97136	202
33	UNIV OF HAWAII – MANOA	D E WICKLAND	HQ	R BIDIGARE	NAGW 3493	200
33	UNIV OF HAWAII – MANOA	G ASRAR	HQ	B QUI	NAGW 5250	202
33	UNIV OF HAWAII – MANOA	R H THOMAS	HQ	P FLAMENT	NAGW 4933	201
33	UNIV OF HAWAII SYSTEM	R H THOMAS	GSFC	P FLAMENT	NAG 5 4143	204
33	UNIV OF KANSAS	R H THOMAS	HQ	C TSATSOULIS	NAGW 3043	239
33	UNIV OF MAINE – ORONO	J S THEON	HQ	V PANCHANG	NAGW 4075	249
33	UNIV OF MARYLAND – COLLEGE PARK	F HOGE	GSFC	A VODACEK	NAG 5 5139	269
33	UNIV OF MARYLAND – COLLEGE PARK	G ASRAR	HQ	M A FAHNESTOCK	NAGW 5244	274
33	UNIV OF MARYLAND – COLLEGE PARK	M BURRELL	GSFC	L W HARDING	NGT 51181	277
33	UNIV OF MARYLAND – COLLEGE PARK	M LEWIS	HQ	C F D	NAGW 2202	271
33	UNIV OF MARYLAND – COLLEGE PARK	N MAYNARD	GSFC	L WANG	NAG 5 4186	268
33	UNIV OF MARYLAND – COLLEGE PARK	N MAYNARD	GSFC	R WAJSOWICZ	NAG 5 3960	267
33	UNIV OF MIAMI	A C JANETOS	HQ	P A MATRAI	NAGW 3765	182

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33	UNIV OF MIAMI	G ASRAR	GSFC	O BROWN	NGT 5 30011	182
33	UNIV OF MIAMI	G ASRAR	GSFC	T DIXON	NGT 5 30027	182
33	UNIV OF MIAMI	G FELDMAN	GSFC	R EVANS	NAS 5 31745	182
33	UNIV OF MIAMI	H OSEROFF	GSFC	O B BROWN	NAS 5 31361	182
33	UNIV OF MIAMI	M E BALTUCK	HQ	D OLSEN	NAGW 3619	181
33	UNIV OF MIAMI	M E MAIDEN	HQ	R H EVANS	NAGW 3775	182
33	UNIV OF MIAMI	M E MAIDEN	HQ	R H EVANS	NAGW 4747	182
33	UNIV OF MIAMI	M R LEWIS	HQ	O BROWN	NAGW 273	181
33	UNIV OF NEBRASKA – LINCOLN	R H THOMAS	HQ	M R ANDERSON	NAGW 1266	346
33	UNIV OF NEW ENGLAND	D SIX	MSFC	S I ZEEMAN	NAG 8 1219	249
33	UNIV OF NEW HAMPSHIRE – DURHAM	R E MURPHY	HQ	J W CAMPBELL	NAGW 3720	354
33	UNIV OF PUERTO RICO – MAYAGUEZ	A C JANETOS	HQ	J E CORREDOR	NAGW 3926	569
33	UNIV OF PUERTO RICO – MAYAGUEZ	D K RUSSELL	HQ	J M LOPEZ	NGT 70319	570
33	UNIV OF PUERTO RICO – MAYAGUEZ	D K RUSSELL	HQ	R VASQUEZ	NGT 70311	570
33	UNIV OF PUERTO RICO – MAYAGUEZ	R L MILLER	JSC	R A ARMSTRONG	NAG13 54	570
33	UNIV OF RHODE ISLAND	B DOUGLAS	GSFC	P CORNILLON	NAG 5 3736	466
33	UNIV OF RHODE ISLAND	D ADAMEC	HQ	P C CORMILLON	NAGW 3009	466
33	UNIV OF RHODE ISLAND	E MAIDEN	HQ	P COMILLON	NAGW 4764	467
33	UNIV OF RHODE ISLAND	G ASRAR	GSFC	J YODER	NGT 5 30088	467
33	UNIV OF RHODE ISLAND	M BALTUCK	HQ	Y A YODER	NGT 30307	467
33	UNIV OF RHODE ISLAND	M R LEWIS	HQ	J A YODER	NAGW 1891	466
33	UNIV OF RHODE ISLAND	R E MURPHY	HQ	P STEGMAN	NAGW 3601	466
33	UNIV OF SAN DIEGO	F SIX	MSFC	A STURZ	NAG 8 1120	123
33	UNIV OF SOUTH FLORIDA	A C JANETOS	HQ	M LUTHER	NGT 30270	184
33	UNIV OF SOUTH FLORIDA	A C JENETOS	HQ	P G COBLE	NAGW 3950	183
33	UNIV OF SOUTH FLORIDA	C MCCLAIN	GSFC	K CARTER	NAS 5 97137	184
33	UNIV OF SOUTH FLORIDA	C R MCCLAIN	GSFC	F E MULLER-KARGER	NAS 5 97128	184
33	UNIV OF SOUTH FLORIDA	D E WICKLAND	HQ	F MULLER-KARGER	NAGW 3483	183
33	UNIV OF SOUTH FLORIDA	D J WILLIAMS	GSFC	K L CARTER	NAG 5 3446	183
33	UNIV OF SOUTH FLORIDA	J YODER	GSFC	P COBLE	NAG 5 6301	183
33	UNIV OF SOUTH FLORIDA	K P LULLA	JSC	L L ROBBINS	NAG 9 959	183
33	UNIV OF SOUTH FLORIDA	M BALTUCK	HQ	F MULLER-KARGER	NGT 30316	184
33	UNIV OF SOUTH FLORIDA	M R LEWIS	HQ	K L CARDER	NAGW 465	183
33	UNIV OF SOUTH FLORIDA	R E MURPHY	HQ	J L WALSH	NAGW 3459	183
33	UNIV OF SOUTH FLORIDA	R E MURPHY	HQ	M E LUTHER	NAGW 3618	183
33	UNIV OF SOUTHERN CALIFORNIA	A C JANETOS	HQ	D A KIEFER	NGT 30237	126
33	UNIV OF SOUTHERN CALIFORNIA	D E WICKLAND	HQ	D A KIEFER	NAGW 3574	125
33	UNIV OF SOUTHERN CALIFORNIA	D E WICKLAND	HQ	R ITURRIAGA	NAGW 3763	125
33	UNIV OF SOUTHERN CALIFORNIA	G ASRAR	HQ	R M KUDELA	NGT 30108	126
33	UNIV OF SOUTHERN CALIFORNIA	K R ARRIGO	GSFC	D A KIEFER	NAG 5 3113	124
33	UNIV OF SOUTHERN MISSISSIPPI	J YODER	GSFC	S LOHRENZ	NAG 5 4570	335
33	UNIV OF TENNESSEE – KNOXVILLE	D E WICKLAND	HQ	G COTA	NAGW 3578	476
33	UNIV OF TEXAS – AUSTIN	B C DOUGLAS	HQ	C K SHUM	NAGW 5190	507
33	UNIV OF TEXAS – AUSTIN	B C DOUGLAS	HQ	D C SMITH	NAGW 5237	507
33	UNIV OF TEXAS – AUSTIN	B DOUGLAS	HQ	B TAPLEY	NAGW 2132	506
33	UNIV OF TEXAS – AUSTIN	C KOBLINSKY	GSFC	B D TAPLEY	NAG 5 4514	504
33	UNIV OF TEXAS – AUSTIN	C KOBLINSKY	GSFC	C K SHUM	NAG 5 4512	504
33	UNIV OF TEXAS – AUSTIN	C KOBLINSKY	GSFC	R J EANES	NAG 5 4511	504
33	UNIV OF TEXAS – AUSTIN	C KOBLINSKY	GSFC	R S NEREM	NAG 5 4513	504
33	UNIV OF WASHINGTON	A NOVOTNY	HQ	M J PERRY	NGT 51225	553
33	UNIV OF WASHINGTON	B C DOUGLAS	HQ	E S JOHNSON	NAGW 5035	551
33	UNIV OF WASHINGTON	B C DOUGLAS	HQ	K A KELLY	NAGW 5225	551
33	UNIV OF WASHINGTON	G ASRAR	GSFC	L THOMPSON	NGT 5 30030	553
33	UNIV OF WASHINGTON	G ASRAR	HQ	R E MCDUFF	NGT 30348	553
33	UNIV OF WASHINGTON	M BALTUCK	HQ	J W MURRAY	NGT 30313	552
33	UNIV OF WASHINGTON	R A SCHIFFER	GSFC	D L HARTMANN	NAG 5 5026	548
33	UNIV OF WASHINGTON	R E MURPHY	HQ	K BANSE	NAGW 3606	550
33	UNIV OF WASHINGTON	R H THOMAS	GSFC	R W LINDSAY	NAG 5 4175	547
33	UNIV OF WASHINGTON	R H THOMAS	GSFC	S MARTIN	NAG 5 4176	547
33	UNIV OF WASHINGTON	R H THOMAS	HQ	D A ROTHROCK	NAGW 2407	549
33	UNIV OF WASHINGTON	R H THOMAS	HQ	D P WINEBRENNER	NAGW 1256	549
33	UNIV OF WASHINGTON	R H THOMAS	HQ	D W LINDSAY	NAGW 4950	551
33	UNIV OF WASHINGTON	R H THOMAS	HQ	G LEVY	NAGW 4972	551
33	UNIV OF WASHINGTON	R H THOMAS	HQ	R E MORITZ	NAGW 4642	551
33	UNIV OF WASHINGTON	R H THOMAS	HQ	S MARTIN	NAGW 1436	549
33	UNIV OF WASHINGTON	R H THOMAS	HQ	S MARTIN	NAGW 4931	551

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33	UNIV OF WASHINGTON	R SCHIFFER	GSFC	D HARTMANN	NAG 5 6101	548
33	UNIV OF WISCONSIN - MADISON	E BARKER	HQ	S S LIMAYE	NAGW 4988	564
33	UNIV OF WISCONSIN - MADISON	M BALTUCK	HQ	J E KUTZBACH	NGT 30346	566
33	UNIV OF WISCONSIN - MADISON	R H THOMAS	HQ	C R BENTLEY	NAGW 1773	563
33	UNIVERSTY OF WISCONSIN-OSHKOSH	K R ARRIGO	GSFC	M P LIZOTTE	NAG 5 4108	567
33	VA POLYTECH INST & ST UNIV	G E KAYNE	GSFC	G E BROWN	NAG 5 5099	541
33	WOODS HOLE OCEANOGRAPHIC INST	B MITCHELL	HQ	P G BREWER	NAGW 2431	311
33	WOODS HOLE OCEANOGRAPHIC INST	E J LINDSTROM	GSFC	D HUANG	NAG 5 4812	311
33	WOODS HOLE OCEANOGRAPHIC INST	G ASRAR	GSFC	D GOYET	NAG 5 4847	311
33	WOODS HOLE OCEANOGRAPHIC INST	G ASRAR	HQ	H M SOSIK	NAGW 5217	312
33	WOODS HOLE OCEANOGRAPHIC INST	K R MCDONALD	GSFC	D M GLOVER	NAG 5 2884	311
33	WOODS HOLE OCEANOGRAPHIC INST	M BALTUCK	HQ	J H DACEY	NAGW 4765	312
33	WOODS HOLE OCEANOGRAPHIC INST	M BALTUCK	HQ	M CARVSO	NAGW 4806	312
33	WOODS HOLE OCEANOGRAPHIC INST	R A SCHIFFER	HQ	R XIN HUANG	NAGW 4331	312
33	WOODS HOLE OCEANOGRAPHIC INST	R MURPHY	HQ	D M GLOVER	NAGW 3648	312
33	YALE UNIV	R H THOMAS	GSFC	R B SMITH	NAG 5 3972	155
33	YALE UNIV	R H THOMAS	HQ	R B SMITH	NAGW 5014	156
39	ALABAMA A&M UNIV	B L WHITE	HQ	T L COLEMAN	NCCW 84	2
39	ALLEGHENY COLLEGE	A J TUYAHOV	GSFC	D BENSEL	NAG 5 3617	443
39	ARIZONA STATE UNIV	H BLODGET	GSFC	P CHRISTENSEN	NAS 5 31371	25
39	AUGUSTANA COLLEGE	N KHAZENIE	GSFC	V K OLNESS	NAG 5 6299	471
39	BETHUNE - COOKMAN COLLEGE	R WHEELER	KSC	T R NICHOLSON	NGT10 52610	165
39	BOSTON UNIV	A C JANETOS	GSFC	D K KAUFMANN	NAG 5 6214	282
39	BOSTON UNIV	B N HOLBEN	GSFC	D DYE	NAG 5 3458	281
39	BOSTON UNIV	C TUCKER	GSFC	R MYNENI	NAG 5 6065	282
39	BOSTON UNIV	D L WILLIAMS	GSFC	C WOODCOCK	NAG 5 3439	281
39	BOSTON UNIV	D L WILLIAMS	GSFC	R B MYNENI	NAG 5 3457	281
39	BOSTON UNIV	G ASRAR	HQ	G SALVUCCI	NAGW 5255	284
39	BOSTON UNIV	S GOGINENI	GSFC	D KEY	NAG 5 4850	282
39	BOSTON UNIV	S GOGINENI	GSFC	D R KEY	NAG 5 4903	282
39	BROWN UNIV	A JANETOS	GSFC	J MUSTART	NAG 5 6003	463
39	CALIFORNIA STATE UNIV - CHICO	J SALUTE	ARC	M BALDY	NCC 2 5062	54
39	CALIFORNIA STATE UNIV - MONTERY BAY	D L PETERSON	ARC	S E ALEXANDER	NCC 2 975	56
39	CALIFORNIA STATE UNIV - MONTERY BAY	N KHAZENIE	GSFC	J F PARIS	NAG 5 6295	55
39	CTR FOR ENVIR & ESTU STUDIES U OF MD	A C JANETOS	GSFC	P R FISHER	NAG 5 6249	250
39	CTR FOR ENVIR & ESTU STUDIES U OF MD	J HARDING	GSFC	L HARDING	NAG 5 6286	250
39	CENTRAL STATE UNIV - OHIO	B L WHITE	HQ	D J LOVE	NAGW 4077	418
39	CHRISTOPHER NEWPORT UNIV	D E WICKLAND	HQ	G J WHITING	NAGW 3736	519
39	CITY UNIV OF NY CITY COLLEGE	A A LACIS	GSFC	R KHANBILVARDI	NCC 5 206	371
39	CITY UNIV OF NY CITY COLLEGE	D TRAVIS	GSFC	L P JONES	NCC 5 74	371
39	CLARION UNIV OF PENNSYLVANIA	J F DOWDY	MSFC	A J VEGA	NAG 8 1312	446
39	CLARK UNIV	A JANETOS	GSFC	B TURNER	NAG 5 6046	284
39	CLARK UNIV	G ASRAR	GSFC	S HERWITZ	NGT 5 30032	285
39	CLARK UNIV	G ASRAR	HQ	J R EASTMAN	NGT 30179	284
39	COLLEGE OF SAN MATEO	M A PINE	HQ	K D KENNEDY	NAGW 4942	57
39	COLLEGE OF SAN MATEO	N KHAZENIE	GSFC	K KENNEDY	NAG 5 4883	56
39	COLORADO COLLEGE	D SIX	MSFC	C E FOSHA	NAG 8 1226	127
39	COLORADO STATE UNIV	A C JANETOS	GSFC	D OJIMA	NAG 5 4646	128
39	COLORADO STATE UNIV	A C JANETOS	HQ	D S OJIMA	NAGW 5242	129
39	COLORADO STATE UNIV	A JANETOS	GSFC	D OJIMA	NAG 5 5188	128
39	COLORADO STATE UNIV	A JANETOS	GSFC	D OJIMA	NAG 5 6228	128
39	COLORADO STATE UNIV	AC JANETOS	HQ	J K DETHING	NGT 30252	130
39	COLORADO STATE UNIV	D WICKLAND	HQ	W PARTON	NAG 5 4983	128
39	COLORADO STATE UNIV	F G HALL	GSFC	R A PIELKE	NAG 5 2302	128
39	COLORADO STATE UNIV	G ASRAR	GSFC	E KELLY	NGT 5 30024	130
39	COLORADO STATE UNIV	G ASRAR	HQ	R H JOHNSON	NGT 30190	129
39	COLORADO STATE UNIV	J S THEON	HQ	S A RUTLEDGE	NGT 30268	130
39	COLORADO STATE UNIV	J S THEON	HQ	W R COTTON	NGT 30231	129
39	COLORADO STATE UNIV	R E MURPHY	HQ	D S SCHIMEL	NAGW 2662	129
39	COLORADO STATE UNIV	R H THOMAS	GSFC	D LISTON	NAG 5 4073	128
39	COLUMBIA UNIV	A C JANETOS	HQ	P N FROELICH	NGT 30278	379
39	COLUMBIA UNIV	D E WICKLAND	GSFC	E MATTHEWS	NAG 5 6321	376
39	COLUMBIA UNIV	D H RIND	GSFC	M A CHANDLER	NCC 5 177	378
39	COLUMBIA UNIV	E LINDSTROM	GSFC	R SEAGER	NAG 5 6315	376
39	COLUMBIA UNIV	G ASRAR	HQ	A L FIELD	NAGW 5216	378

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39	COLUMBIA UNIV	J SWANK	GSFC	D M HOLLAND	NAG 5 4028	375
39	COLUMBIA UNIV	L D TRAVIS	GSFC	C E ROSENWEIG	NCC 5 61	378
39	COLUMBIA UNIV	M BALTUCK	HQ	T TAKAHASHI	NGT 30337	379
39	COLUMBIA UNIV	R H THOMAS	HQ	D G MARTINSON	NAGW 4589	377
39	COLUMBIA UNIV	R KOSTER	GSFC	M STIEGLITZ	NCC 5 218	378
39	COOPER UNION	V C VANDERBILT	ARC	F L FONTAINE	NCC 2 5101	380
39	CORNELL UNIV	C B PILCHER	HQ	J VEVERKA	NAGW 3320	385
39	CORNELL UNIV	G ASRAR	GSFC	D L TURCOTTE	NAG 5 6281	384
39	CORNELL UNIV	J JODER	GSFC	G CHARLES	NAG 5 6273	384
39	CORNELL UNIV	J S THEON	HQ	W BRUTSAERT	NGT 30279	386
39	CORNELL UNIV	M BALTUCK	HQ	B ISACKS	NAGW 2638	385
39	CORNELL UNIV	M BATLUCK	GSFC	B ISACKS	NAG 5 6111	384
39	CORNELL UNIV	W LAU	GSFC	W BRUTSAET	NAS 5 31723	386
39	DARTMOUTH COLLEGE	R H THOMAS	GSFC	G BRAKENRIDGE	NAG 5 4178	349
39	DARTMOUTH COLLEGE	R H THOMAS	HQ	R BRAKENRIDGE	NAGW 4982	350
39	DUKE UNIV	A C JANETOS	HQ	N L CHRISTENSEN JR	NGT 30253	402
39	DUKE UNIV	A C JANETOS	HQ	R RICHTER	NGT 30305	403
39	DUKE UNIV	A C JANETOS	HQ	W H SCHESINGER	NGT 30301	402
39	DUKE UNIV	A C JANETOS	HQ	W H SCHESINGER	NGT 30302	403
39	DUKE UNIV	D E WICKLAND	HQ	B STRAIN	NGT 30333	403
39	DUKE UNIV	D E WICKLAND	HQ	E KASISOHKE	NAGW 4483	402
39	DUKE UNIV	D WICKLAND	GSFC	E KASISCHKE	NAG 5 5148	402
39	DUKE UNIV	G ASRAR	HQ	W H SCHESINGER	NGT 30199	402
39	DUKE UNIV	R KNOX	GSFC	D L URBAN	NCC 5 233	402
39	EAST CAROLINA UNIV	D E WICKLAND	GSFC	Y WANG	NAG 5 4924	403
39	EAST CAROLINA UNIV	D E WICKLAND	HQ	Y WANG	NAGW 4505	403
39	ECKERD COLLEGE	F SIX	MSFC	J B THOMPSON	NAG 8 1103	165
39	FLORIDA STATE UNIV	D E WICKLAND	HQ	J CHANTON	NAGW 3855	172
39	FLORIDA STATE UNIV	D WICKLAND	GSFC	E SMITH	NAG 5 6258	172
39	FLORIDA STATE UNIV	F G HALL	GSFC	E A SMITH	NAG 5 2447	171
39	GEORGE MASON UNIV	H RAMPRIYAN	GSFC	M KAFATOS	NAG 5 3086	522
39	GEORGE WASHINGTON UNIV	F G HALL	GSFC	R LANG	NCC 5 53	159
39	GEORGE WASHINGTON UNIV	J GASCH	GSFC	D WILLIAMSON	NAG 5 3957	158
39	GEORGE WASHINGTON UNIV	P E O'NEILL	GSFC	R LANG	NAG 5 4800	158
39	GEORGE WASHINGTON UNIV	R C HARRISS	HQ	R A WILLIAMSON	NAGW 4873	159
39	GEORGIA INST OF TECH	A J TUYAHOV	GSFC	W L CHAMEIDES	NAG 5 3855	189
39	HARTWICK COLLEGE	J F DOWDY	MSFC	P T BUCKLEY	NAG 8 1263	388
39	HARVARD UNIV	A C JANETOS	HQ	S C WOFSY	NAGW 3082	288
39	HARVARD UNIV	D WICKLAND	GSFC	D WORSY	NAG 5 4722	287
39	HARVARD UNIV	D WICKLAND	HQ	D WOFSY	NAG 5 6136	287
39	HARVARD UNIV	F G HALL	GSFC	S C WOFSY	NAG 5 2253	285
39	HARVARD UNIV	G ASRAR	GSFC	F BAZZAZ	NGT 5 30002	290
39	HARVARD UNIV	G ASRAR	HQ	F A BAZZAZ	NGT 30195	289
39	HARVARD UNIV	G ASRAR	HQ	M S MCELROY	NGT 30182	289
39	HARVARD UNIV	J A KAYE	GSFC	S C WOFSY	NAG 5 3979	286
39	HUMBOLDT STATE UNIV	D K RUSSELL	HQ	T ROELOFS	NGT 90247	57
39	ILLINOIS STATE UNIV	J F DOWNDY	MSFC	D HOLLAND	NAG 8 1262	206
39	INDIANA UNIV - BLOOMINGTON	A C JANETOS	HQ	E E MORAN	NGT 30248	225
39	JACKSON STATE UNIV	J F DOWDY	MSFC	R S REDDY	NAG 8 1316	333
39	JAMES MADISON UNIV	N KHAZENIE	GSFC	J BARNES	NAG 5 6166	526
39	JOHNS HOPKINS UNIV	E HALL	GSFC	J KOU	NAG 5 2128	251
39	JOHNS HOPKINS UNIV	G ASRAR	HQ	G FEELEY-HARNIK	NGT 30209	259
39	JOHNS HOPKINS UNIV	M Y WEI	HQ	M B PARLANGE	NGT 30356	259
39	MASSACHUSETTS INST OF TECH	D E WICKLAND	GSFC	D ENTEKHABI	NAG 5 4905	299
39	MASSACHUSETTS INST OF TECH	D E WICKLAND	HQ	D ENTEKHABI	NAGW 4508	303
39	MASSACHUSETTS INST OF TECH	E J LINSTROM	GSFC	B HAGER	NAG 5 6352	300
39	MASSACHUSETTS INST OF TECH	E LINDSTROM	GSFC	P WUNSCH	NAG 5 6224	300
39	MASSACHUSETTS INST OF TECH	G ASRAR	HQ	E ELTAHIR	NAGW 5201	304
39	MASSACHUSETTS INST OF TECH	G SOFFEN	GSFC	T HERRING	NAS 5 33017	304
39	MASSACHUSETTS INST OF TECH	M Y WEI	GSFC	E ELTAHIR	NAG 5 6206	300
39	MASSACHUSETTS INST OF TECH	M Y WEI	HQ	D ENTEKHABI	NAGW 4164	303
39	MASSACHUSETTS INST OF TECH	M Y WEI	HQ	D ENTEKHABI	NAGW 4750	303
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39	MEDGAR EVERS COLLEGE	A A LACIS	GSFC	L P JOHNSON	NCC 5 205	388
39	MICHIGAN STATE UNIV	A JANETOS	GSFC	D BROWN	NAG 5 6042	313
39	MICHIGAN STATE UNIV	D WILLIAMS	GSFC	D SKOLE	NAG 5 4810	313
39	MICHIGAN TECHNOLOGICAL UNIV	G ASRAR	GSFC	P DEBANKER	NGT 5 30028	315
39	MICHIGAN TECHNOLOGICAL UNIV	R H THOMAS	GSFC	D PILANT	NAG 5 4144	314
39	MICHIGAN TECHNOLOGICAL UNIV	R H THOMAS	HQ	D PILANT	NAGW 4989	314
39	MONTANA STATE UNIV	A C JANETOS	GSFC	A HASEN	NAG 5 6005	343
39	NEW MEXICO STATE UNIV - LAS CRUCES	R S NOCK	GSFC	J E HALLIGAN	NAS 5 31125	367
39	NORFOLK STATE UNIV	N KHAZENIE	GSFC	S CHAUNDHARY	NAG 5 4962	527
39	NORFOLK STATE UNIV	N KHAZENIE	GSFC	W J RODRIGUEZ	NAG 5 6298	527
39	NORFOLK STATE UNIV	R HATHAWAY	LARC	S R CHAUDURY	NCC 1 200	527
39	NORTH CAROLINA A&T STATE UNIV	R L YANG	LARC	G A UZOCHUKWU	NAG 1 1454	404
39	NORTHERN ARIZONA UNIV	J BUTLER	GSFC	R L WILDEY	NAG 5 2159	26
39	NORTHWEST INDIAN COLLEGE	A HATCH	ARC	R LORENCE	NAGW 3622	544
39	OHIO STATE UNIV	G ASRAR	GSFC	E MOSLEY-THOMPSON	NGT 5 30042	428
39	OHIO STATE UNIV	G ASRAR	GSFC	L G THOMPSON	NGT 5 30012	428
39	OHIO STATE UNIV	M E MAIDEN	HQ	K C JEZEK	NAGW 4744	427
39	OHIO STATE UNIV	N NORMANDY	GSFC	V J MAYER	NAG 5 3969	425
39	OHIO STATE UNIV	R H THOMAS	GSFC	D L THOMPSON	NAG 5 4075	425
39	OHIO STATE UNIV	R H THOMAS	GSFC	K JEZEK	NAG 5 3477	425
39	OHIO STATE UNIV	R H THOMAS	HQ	D H BROMWICH	NAGW 2718	426
39	OHIO STATE UNIV	R H THOMAS	HQ	D H BROMWICH	NAGW 3677	426
39	OHIO STATE UNIV	R H THOMAS	HQ	K JEZEK	NAGW 4215	427
39	OHIO STATE UNIV	R H THOMAS	HQ	L THOMPSON	NAGW 4903	427
39	OHIO STATE UNIV	S GOGINENI	GSFC	D JEZEK	NAG 5 4849	426
39	OHIO STATE UNIV	S GOGINENI	HQ	D BROMWICH	NAG 5 6001	426
39	OHIO STATE UNIV	W B KRABILL	WFF	G HAMILTON	NAG 5 5037	426
39	OLD DOMINION UNIV	N KHAZENIE	GSFC	E SMITH	NAG 5 4515	529
39	OREGON STATE UNIV	A C JANETOS	GSFC	D E HARMON	NAG 5 6242	440
39	OREGON STATE UNIV	A C JANETOS	HQ	J B KAUFMAN	NGT 30249	442
39	OREGON STATE UNIV	D ADAMEC	HQ	P T STRUB	NAGW 2475	440
39	OREGON STATE UNIV	D E WICKLAND	GSFC	D COHEN	NAG 5 4816	440
39	OREGON STATE UNIV	D E WICKLAND	GSFC	D H UNSWORTH	NAG 5 4433	440
39	OREGON STATE UNIV	D E WICKLAND	HQ	B J YODER	NAGW 3870	441
39	OREGON STATE UNIV	D E WICKLAND	HQ	D O WALLIN	NAGW 3745	441
39	OREGON STATE UNIV	D E WICKLAND	HQ	W B COHEN	NAGW 4880	441
39	OREGON STATE UNIV	E LINDSTROM	GSFC	D B CHELTON	NAG 5 6354	440
39	OREGON STATE UNIV	F G HALL	GSFC	D MARKS	NAG 5 2301	439
39	OREGON STATE UNIV	F G HALL	GSFC	L MAHRT	NAG 5 2300	439
39	OREGON STATE UNIV	F G HALL	GSFC	R H CUENCA	NAG 5 2377	440
39	OREGON STATE UNIV	G ASRAR	HQ	P SOLLINS	NGT 30203	442
39	OREGON STATE UNIV	M MEYER	HQ	M H UNSWORTH	NAGW 4436	441
39	OREGON STATE UNIV	M WEI	GSFC	E WAYMIRE	NAG 5 6290	440
39	OREGON STATE UNIV	M Y WEI	HQ	E C WAYMIRE	NAGW 4714	441
39	PENN STATE UNIV	A J TUYAHOV	GSFC	G W PETERSEN	NAG 5 3856	451
39	PENN STATE UNIV	D E WICKLAND	GSFC	R NAJJAR	NAG 5 3976	451
39	PENN STATE UNIV	D E WICKLAND	HQ	C UHL	NAGW 5162	455
39	PENN STATE UNIV	G ASRAR	HQ	A P BARROS	NAGW 5254	455
39	PENN STATE UNIV	J S THEON	HQ	D LAMB	NGT 30280	456
39	PENN STATE UNIV	M WEI	GSFC	E BARRON	NAG 5 4553	452
39	PENN STATE UNIV	M WEI	GSFC	T CARLSON	NAG 5 6194	452
39	PENN STATE UNIV	M Y WEI	GSFC	C DUFFY	NAG 5 6357	453
39	PENN STATE UNIV	M Y WEI	HQ	C J DUFFY	NAGW 4401	454
39	PENN STATE UNIV	M Y WEI	HQ	T N CARLSON	NAGW 4250	454
39	PORTLAND STATE UNIV	J F DOWDY	MSFC	A M FRASER	NAG 8 1283	442
39	PRINCETON UNIV	A C JANETOS	GSFC	S PACALA	NAG 5 4701	359
39	PRINCETON UNIV	E ENGMAN	GSFC	E WOOD	NGT 5 56	360
39	PRINCETON UNIV	E T ENGMAN	GSFC	E WOOD	NAG 5 1628	358
39	PRINCETON UNIV	F G HALL	GSFC	E WOOD	NAG 5 2326	358
39	PRINCETON UNIV	G ASRAR	GSFC	D MANABE	NGT 5 30009	360
39	PRINCETON UNIV	G ASRAR	HQ	S A LEVIN	NAGW 4688	359
39	PRINCETON UNIV	W LAU	GSFC	E WOOD	NAS 5 31719	360
39	PURDUE UNIV	C HILL	SSC	C J JOHANNSEN	NAG13 38	227
39	PURDUE UNIV	D E WICKLAND	GSFC	D A LANGREBE	NAG 5 3975	227

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39	RICE UNIV	D E WICKLAND	GSFC	R L SASS	NAG 5 4909	484
39	RICE UNIV	D E WICKLAND	HQ	R L SASS	NAGW 4635	485
39	RICE UNIV	D E WICKLAND	HQ	R L SASS	NAGW 4685	485
39	RICE UNIV	M IMHOFF	GSFC	P HARCOMBE	NAG 5 4958	484
39	ROCHESTER INST OF TECH	D L WILLIAMS	GSFC	J SCHOTTMS	NAG 5 3443	393
39	ROCKY MOUNTAIN COLLEGE	D SIX	MSFC	J LYMAN	NAG 8 1213	344
39	RUTGERS STATE UNIV – PISCATAWAY	G ASRAR	HQ	D A ROBINSON	NGT 30164	362
39	RUTGERS STATE UNIV – PISCATAWAY	R H THOMAS	HQ	D A ROBINSON	NAGW 3568	362
39	RUTGERS STATE UNIV – PISCATAWAY	S GOGINENI	GSFC	D J FRANCIS	NAG 5 4908	362
39	RUTGERS STATE UNIV OF NJ NEW BRUNS	M E MAIDEN	HQ	J FRANCIS	NAGW 4760	363
39	SAINT LOUIS UNIV	G A SOFFEN	GSFC	R PASKEN	NGT 5 10	336
39	SAN DIEGO STATE UNIV	A C JANETOS	HQ	W C OECHEL	NGT 30319	58
39	SAN DIEGO STATE UNIV	D E WICKLAND	HQ	J FRANKLIN	NGT 30235	58
39	SAN DIEGO STATE UNIV	D E WICKLAND	HQ	J L MUELLER	NAGW 3494	58
39	SAN JOSE STATE UNIV	T MILLER	MSFC	R BORSTEIN	NAS 8 97106	60
39	SELMA UNIV	R M TRUNZO	JPL	K D CHAPATWALA	NAGW 3969	4
39	SOUTH DAKOTA SCH OF MINES & TECH	T GULL	GSFC	P S HUEBNER	NAG 5 2950	471
39	SOUTH DAKOTA STATE UNIV	D L WILLIAMS	GSFC	D HELDER	NAG 5 3540	472
39	SOUTHEASTERN LOUISIANA UNIV	W M KNOTT	KSC	R A SEIGEL	NAG10 131	245
39	SOUTHERN UNIV & A&M COLLEGE	K POIMBOEUF	KSC	I MIRSHAMS	NAG10 149	246
39	ST	J F DOWDY	MSFC	D POISTER	NAG 8 1318	558
39	STANFORD UNIV	A C JANETOS	HQ	C B FIELD	NGT 30254	70
39	STANFORD UNIV	D E WICKLAND	HQ	H A MOONEY	NAGW 4212	67
39	STANFORD UNIV	D E WICKLAND	HQ	P VITOUSEK	NGT 30233	70
39	STANFORD UNIV	D WICKLAND	GSFC	H MOONEY	NAG 5 6107	66
39	STANFORD UNIV	G ASRAR	GSFC	H MOONEY	NGT 5 30018	72
39	STANFORD UNIV	M L IMHOFF	GSFC	P EHRLICH	NAG 5 2393	65
39	STANFORD UNIV	R H THOMAS	GSFC	D ZEBKER	NAG 5 3732	65
39	STANFORD UNIV	R H THOMAS	HQ	H ZEBKER	NAGW 4943	68
39	STATE UNIV OF NY – ALBANY	A C JANETOS	HQ	D R FITZJARRALD	NGT 30340	394
39	STATE UNIV OF NY – ALBANY	F G HALL	GSFC	D B FITZIARRALD	NAG 5 2242	393
39	STATE UNIV OF NY – BINGHAMTON	D E WICKLAND	GSFC	M GOEL	NAG 5 3866	394
39	STATE UNIV OF NY – BINGHAMTON	G ASRAR	HQ	N S GOEL	NAGW 2699	394
39	STATE UNIV OF NY – STONY BROOK	G ASRAR	HQ	M T LERDAU	NAGW 5249	398
39	STATE UNIV OF NY – STONY BROOK	M J KURYLO	HQ	P VARANASI	NAGW 1238	397
39	STATE UNIV OF NY – STONY BROOK	W LAU	GSFC	M GELLER	NAS 5 31720	398
39	TEXAS A&M UNIV	D RUSSELL	HQ	M DREW	NGT 70387	491
39	TEXAS A&M UNIV	J S THEON	HQ	J B VALDES	NGT 30287	491
39	TEXAS A&M UNIV	M R HALFERT	HQ	J GIARDINO	NAGW 3186	490
39	TEXAS A&M UNIV	M Y WEI	GSFC	J B VALDES	NAG 5 3966	488
39	TEXAS A&M UNIV	M Y WEI	HQ	I RODRIGUEZ–ITURBE	NAGW 4171	490
39	TEXAS A&M UNIV	M Y WEI	HQ	I RODRIGUEZ–ITURBE	NAGW 4766	490
39	TEXAS A&M UNIV	M Y WEI	HQ	J B VALDES	NAGW 4189	490
39	TEXAS SOUTHERN UNIV	J D ATKINSON	JSC	J JONES	NAG 9 879	493
39	TEXAS SOUTHERN UNIV	L ARMENDARIZ	JSC	J JONES	NAG 9 974	493
39	THE UNIV OF CENTRAL FLORIDA	D HARDING	GSFC	J WEISHAMPEL	NAG 5 3547	173
39	THE UNIV OF CENTRAL FLORIDA	G ASRAR	HQ	J F WEISHAMPEL	NAGW 5202	173
39	THE UNIV OF CENTRAL FLORIDA	K RANSON	GSFC	J F WEISHAMPEL	NAG 5 3262	173
39	TROY STATE UNIV	D SIX	MSFC	D J BATEMAN	NAG 8 1204	4
39	TULANE UNIV	J S THEON	HQ	R G WATTS	NGT 30262	247
39	UNIV OF MINN – MINNEAPOLIS–ST PAUL	A C JANETOS	HQ	M PERSON	NGT 30352	332
39	UNIV OF MINN – MINNEAPOLIS–ST PAUL	F HASLER	GSFC	T E BURK	NAG 5 2698	328
39	UNIV OF MINN – MINNEAPOLIS–ST PAUL	G ASRAR	HQ	E F GEORGIOU	NGT 30213	332
39	UNIV OF MINN – MINNEAPOLIS–ST PAUL	G ASRAR	HQ	M B DAVIS	NGT 30320	332
39	UNIV OF MINN – MINNEAPOLIS–ST PAUL	M Y WEI	GSFC	E FOUFOULA–GEORGI	NAG 5 6191	330
39	UNIV	J S THEON	HQ	R WHARTON	NGT 30286	347
39	UNIV	M E MAIDEN	HQ	K C MCGUIRE	NAGW 4214	347
39	UNIV OF ALABAMA – HUNTSVILLE	L R GREENWOOD	MSFC	D J PERKEY	NCC 8 22	14
39	UNIV OF ALABAMA – HUNTSVILLE	M E MAIDEN	HQ	M E BOTTS	NAGW 3674	12
39	UNIV OF ALABAMA – HUNTSVILLE	R GREENWOOD	MSFC	R MCNIDER	NCC 8 141	14
39	UNIV OF ALABAMA – HUNTSVILLE	T BRAKE	GSFC	R WELCH	NAS 5 31718	13
39	UNIV OF ALABAMA – HUNTSVILLE	Y ENLOVE	GSFC	S GRAVES	NCC 5 140	13
39	UNIV OF ALABAMA – UNIV	J BERGSTRALH	HQ	T TIPPING	NAGW 5221	17
39	UNIV OF ALASKA – ANCHORAGE	J F DOWDY	MSFC	J A OLOFSSON	NAG 8 1282	18

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39	UNIV OF ALASKA – FAIRBANKS	D HALL	GSFC	C BENSON	NCC 5 75	21
39	UNIV OF ALASKA – FAIRBANKS	D HALL	GSFC	C BENSON	NCC 5 213	21
39	UNIV OF ALASKA – FAIRBANKS	D K HALL	GSFC	D L VERBYLA	NAG 5 4517	19
39	UNIV OF ALASKA – FAIRBANKS	G ASRAR	GSFC	K PETERSON	NGT 5 30039	21
39	UNIV OF ALASKA – FAIRBANKS	G HUNOLT	GSFC	G WELLER	NAS 5 32393	20
39	UNIV OF ALASKA – FAIRBANKS	R H THOMAS	GSFC	C LINGLE	NAG 5 4068	19
39	UNIV OF ALASKA – FAIRBANKS	R H THOMAS	GSFC	D JEFFRIES	NAG 5 4170	19
39	UNIV OF ALASKA – FAIRBANKS	R H THOMAS	HQ	C LINGLE	NAGW 4930	20
39	UNIV OF ALASKA – FAIRBANKS	R H THOMAS	HQ	C S LINGLE	NAGW 4371	20
39	UNIV OF ALASKA – FAIRBANKS	R H THOMAS	HQ	M JEFFRIES	NAGW 4966	20
39	UNIV OF ALASKA – FAIRBANKS	R H THOMAS	HQ	W D HARRISON	NAGW 3727	20
39	UNIV OF ALASKA – FAIRBANKS	S P GOGINENI	GSFC	D FREYMUELLER	NAG 5 4369	19
39	UNIV OF ARIZONA	A C JANETOS	GSFC	L J GRAUMLICH	NAG 5 4687	32
39	UNIV OF ARIZONA	A C JANETOS	HQ	J W SHUTTLEWORTH	NGT 30303	40
39	UNIV OF ARIZONA	A C JANETOS	HQ	M YITAYEW	NGT 30336	40
39	UNIV OF ARIZONA	D E WICKLAND	GSFC	W SHUTTLEWORTH	NAG 5 3854	30
39	UNIV OF ARIZONA	D E WICKLAND	HQ	A R HUETE	NAGW 3555	36
39	UNIV OF ARIZONA	D L WILLIAMS	GSFC	C J THOME	NAG 5 3436	30
39	UNIV OF ARIZONA	F G HALL	GSFC	R E DICKINSON	NAG 5 2310	28
39	UNIV OF ARIZONA	G ASRAR	GSFC	R E DICKSON	NGT 5 30013	41
39	UNIV OF ARIZONA	G ASRAR	HQ	J RANGER-MOORE	NGT 30181	39
39	UNIV OF ARIZONA	G ASRAR	HQ	S SOROOSHIAN	NAGW 2425	35
39	UNIV OF ARIZONA	J S THEON	HQ	R C BALES	NGT 30269	40
39	UNIV OF ARIZONA	M WEI	GSFC	J SHUTTLEWORTH	NAG 5 3492	30
39	UNIV OF ARIZONA	M Y WEI	GSFC	R DICKINSON	NAG 5 4480	32
39	UNIV OF ARIZONA	M Y WEI	GSFC	S SOROOSHAIN	NAG 5 3640	30
39	UNIV OF ARIZONA	M Y WEI	HQ	W J SHUTTLEWORTH	NAGW 4165	37
39	UNIV OF ARIZONA	R A SCHIFFER	HQ	P N SLATER	NGT 30239	40
39	UNIV OF ARIZONA	R E MURPHY	HQ	W J SHUTTLEWORTH	NAGW 3368	36
39	UNIV OF ARIZONA	R H THOMAS	GSFC	V R BAKER	NAG 5 4124	31
39	UNIV OF ARIZONA	R H THOMAS	HQ	V R BAKER	NAGW 4925	38
39	UNIV OF ARIZONA	W B KRABILL	GSFC	R C BALES	NAG 5 5031	33
39	UNIV OF CALIFORNIA – BERKELEY	A C JANETOS	HQ	C D	NGT 30247	85
39	UNIV OF CALIFORNIA – BERKELEY	A C JANETOS	HQ	F S CHAPIN III	NGT 30259	85
39	UNIV OF CALIFORNIA – BERKELEY	A C JANETOS	HQ	J HARTE	NGT 30289	85
39	UNIV OF CALIFORNIA – BERKELEY	A C JANETOS	HQ	P A MATSON	NGT 30260	85
39	UNIV OF CALIFORNIA – BERKELEY	D E WICKLAND	HQ	F S CHAPIN III	NAGW 3769	80
39	UNIV OF CALIFORNIA – BERKELEY	G ASRAR	GSFC	D G AMUNDSON	NGT 5 30044	86
39	UNIV OF CALIFORNIA – BERKELEY	G ASRAR	GSFC	M POWER	NGT 5 30006	86
39	UNIV OF CALIFORNIA – BERKELEY	G ASRAR	GSFC	P A MATSON	NGT 5 30010	86
39	UNIV OF CALIFORNIA – BERKELEY	G ASRAR	HQ	M E POWER	NGT 30165	84
39	UNIV OF CALIFORNIA – BERKELEY	M BALTUCK	HQ	W E DIETRICH	NGT 30318	85
39	UNIV OF CALIFORNIA – DAVIS	A C JANETOS	HQ	S L USTIN	NGT 30341	91
39	UNIV OF CALIFORNIA – DAVIS	D E WICKLAND	HQ	S L USTIN	NAGW 4626	89
39	UNIV OF CALIFORNIA – DAVIS	M Y WEI	HQ	M B PARLANGE	NGT 30300	91
39	UNIV OF CALIFORNIA – DAVIS	R LAWRENCE	GSFC	R CRIDDLE	NGT 5 90024	91
39	UNIV OF CALIFORNIA – DAVIS	V C VANDERBILT	ARC	S USTIN	NCC 2 5223	90
39	UNIV OF CALIFORNIA – IRVINE	A C JANETOS	HQ	S C TAYLER	NGT 30304	94
39	UNIV OF CALIFORNIA – IRVINE	F G HALL	GSFC	S TRUMBORE	NAG 5 2306	92
39	UNIV OF CALIFORNIA – LOS ANGELES	G ASRAR	HQ	S M ANDERSON	NGT 30148	104
39	UNIV OF CALIFORNIA – LOS ANGELES	J A KAYE	GSFC	C R MECHOSO	NAG 5 6386	99
39	UNIV OF CALIFORNIA – LOS ANGELES	M MATEU	HQ	R CRIDDLE	NGT 90301	104
39	UNIV OF CALIFORNIA – SAN DIEGO	D E WICKLAND	GSFC	D D KEELING	NAG 5 3528	108
39	UNIV OF CALIFORNIA – SAN DIEGO	F G HALL	GSFC	M WAHLEN	NAG 5 2288	107
39	UNIV OF CALIFORNIA – SAN DIEGO	G SOFFEN	GSFC	J B MINSTER	NAS 5 33019	113
39	UNIV OF CALIFORNIA – SAN DIEGO	J FOSTER	GSFC	D CAYAN	NAG 5 6073	110
39	UNIV OF CALIFORNIA – SAN DIEGO	R E MURPHY	HQ	C D KEELING	NAGW 2987	111
39	UNIV OF CALIFORNIA – SANTA BARBARA	A ASRAR	HQ	R C FROHN	NAGW 5241	118
39	UNIV OF CALIFORNIA – SANTA BARBARA	A C JANETOS	GSFC	J ESTES	NAG 5 6259	117
39	UNIV OF CALIFORNIA – SANTA BARBARA	A C JANETOS	HQ	J M MELACK	NGT 30267	119
39	UNIV OF CALIFORNIA – SANTA BARBARA	A C JANETOS	HQ	J MELACK	NAGW 2724	117
39	UNIV OF CALIFORNIA – SANTA BARBARA	A C JANETOS	HQ	T DUNNE	NAGW 5233	118
39	UNIV OF CALIFORNIA – SANTA BARBARA	A J TUYOHOV	GSFC	D E ESTES	NAG 5 3620	116
39	UNIV OF CALIFORNIA – SANTA BARBARA	D E WICKLAND	HQ	J M MELACK	NAGW 4352	118
39	UNIV OF CALIFORNIA – SANTA BARBARA	D E WICKLAND	HQ	J M MELACK	NAGW 5115	118

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39	UNIV OF CALIFORNIA – SANTA BARBARA	G A SHELTON	ARC	D A ROBERTS	NAG 2 1140	115
39	UNIV OF CALIFORNIA – SANTA BARBARA	G ASRAR	HQ	H COUCLELIS	NGT 30204	119
39	UNIV OF CALIFORNIA – SANTA BARBARA	G ASRAR	HQ	J DOZIER	NAGW 2602	117
39	UNIV OF CALIFORNIA – SANTA BARBARA	G ASRAR	HQ	J DOZIER	NAGW 5185	118
39	UNIV OF CALIFORNIA – SANTA BARBARA	J YODER	GSFC	D SIEGEL	NAG 5 6288	117
39	UNIV OF CALIFORNIA – SANTA BARBARA	N KHAZENIE	GSFC	C GAUTIER	NAG 5 4963	117
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39	UNIV OF COLORADO – BOULDER	A J TUYAHOV	GSFC	W EMERY	NAG 5 3847	136
39	UNIV OF COLORADO – BOULDER	A JANETOS	GSFC	D OVERPECK	NAG 5 6051	140
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39	UNIV OF COLORADO – BOULDER	F G HALL	GSFC	R K MONSON	NAG 5 2287	133
39	UNIV OF COLORADO – BOULDER	G A SOFFEN	GSFC	G H BORN	NGT 5 5	150
39	UNIV OF COLORADO – BOULDER	G ASRAR	GSFC	D A WEISMAN	NGT 5 30003	150
39	UNIV OF COLORADO – BOULDER	G ASRAR	GSFC	D WEBSTER	NGT 5 30023	150
39	UNIV OF COLORADO – BOULDER	G ASRAR	GSFC	J MASLANIK	NGT 5 30034	150
39	UNIV OF COLORADO – BOULDER	G ASRAR	HQ	A R TOWNSEND	NAGW 5253	146
39	UNIV OF COLORADO – BOULDER	G ASRAR	HQ	C WESSMAN	NAGW 4689	145
39	UNIV OF COLORADO – BOULDER	G ASRAR	HQ	D WEISMAN	NGT 5 30026	150
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39	UNIV OF COLORADO – BOULDER	R H THOMAS	HQ	J KEY	NAGW 3437	143
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39	UNIV OF FLORIDA	R E MURPHY	HQ	C S HOLLING	NAGW 2524	177
39	UNIV OF GEORGIA	D K RUSSELL	HQ	R HODSON	NGT 70345	197
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39	UNIV OF HAWAII - MANOA	M BALTUCK	HQ	P MOUQINIS-MARK	NAGW 2468	199
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39	UNIV OF NEW MEXICO	A KAHN	HQ	T L COLEMAN	NCCW 87	369
39	UNIV OF NEW MEXICO	A KAHN	HQ	T M BUDGE	NASW 4683	369
39	UNIV OF NEW ORLEANS	N KHAZENIE	GSFC	J J SULLIVAN	NAG 5 6165	248
39	UNIV OF NORTH CAROLINA - CHAPEL HILL	D E WICKLAND	GSFC	S C WHALEN	NAG 5 6278	411
39	UNIV OF NORTH CAROLINA - CHAPEL HILL	D E WICKLAND	HQ	C S MARTENS	NAGW 3681	411
39	UNIV OF NORTH CAROLINA - CHAPEL HILL	G ASRAR	HQ	A MOODY	NAGW 5158	411
39	UNIV OF NORTH DAKOTA	A J TUYAHOV	GSFC	G A SEIELSTAD	NAG 5 3616	413
39	UNIV OF NORTH DAKOTA	A TUYAHOV	HQ	G SEIELSTAD	NAGW 4810	413
39	UNIV OF NORTH DAKOTA	F HASLER	GSFC	C A WOOD	NAG 5 2696	413
39	UNIV OF NORTH DAKOTA	J HUNING	GSFC	J STITH	NCC 5 193	413
39	UNIV OF NOTRE DAME	AC JANETOS	HQ	R G CARLTON	NGT 30250	230
39	UNIV OF OKLAHOMA - NORMAN	A S MCGEE	HQ	M MORRISSEY	NAGW 4551	438
39	UNIV OF OREGON - EUGENE	P BARTLEIN	GSFC	P BARTLEIN	NGT 5 50107	443
39	UNIV OF PITTSBURGH	N KHAZENIE	GSFC	A A PANAH	NAG 5 6164	460
39	UNIV OF PUERTO RICO - MAYAGUEZ	A C JANETOS	HQ	J CORREDOR	NGT 30272	570
39	UNIV OF PUERTO RICO - MAYAGUEZ	A T JOYCE	SSC	L L RODRIGUEZ	NAG13 17	570
39	UNIV OF PUERTO RICO - MAYAGUEZ	M MATEU	HQ	R F SEIN	NCCW 88	570
39	UNIV OF PUERTO RICO - MAYAGUEZ	W E ESAIAS	GSFC	J M LOPEZ	NAG 5 2909	569
39	UNIV OF PUERTO RICO-RIO PIEDRAS	B L WHITE	HQ	B R WEINER	NAGW 4059	571
39	UNIV OF RHODE ISLAND	E LINDSTROM	GSFC	P CORNILLON	NAG 5 6320	466
39	UNIV OF RHODE ISLAND	M A PINE	HQ	L M CARTER	NAGW 4632	466
39	UNIV OF RHODE ISLAND	Y ENLOE	GSFC	P CORNILLON	NCC 5 123	467
39	UNIV OF ROCHESTER	V R THORNE	HQ	M J UTELL	NAGW 4599	401
39	UNIV OF SOUTH CAROLINA-COLUMBIA	A JOYCE	JSC	J JENSEN	NGT13 52712	470
39	UNIV OF SOUTH CAROLINA-COLUMBIA	C	SSC	J R JENSEN	NAG13 27	470
39	UNIV OF SOUTH FLORIDA	M BALTUCK	HQ	K L CARDER	NGT 30306	184
39	UNIV OF TEXAS - ARLINGTON	K J RANSON	HQ	D P GIBBS	NAGW 3421	500
39	UNIV OF TEXAS - AUSTIN	A J ANDERSON	HQ	B TAPLEY	NAGW 2615	506
39	UNIV OF TEXAS - AUSTIN	G ASRAR	GSFC	J FAMIGLIETTI	NGT 5 30008	509
39	UNIV OF TEXAS - AUSTIN	G ASRAR	HQ	J FAMINGLIETTI	NAGW 5240	507
39	UNIV OF TEXAS - AUSTIN	G SOFFE	GSFC	B SCHUTZ	NAS 5 33021	508
39	UNIV OF TEXAS - AUSTIN	K D LULLA	JSC	W T FOWLER	NAG 9 912	505
39	UNIV OF TEXAS - AUSTIN	M Y WEI	GSFC	J S FAMIGHETTI	NAG 5 3773	503
39	UNIV OF TEXAS - AUSTIN	M Y WEI	HQ	J S FAMIGLIETTI	NAGW 4087	507
39	UNIV OF TEXAS - AUSTIN	N KHAZENIE	GSFC	W T FOWLER	NAG 5 6300	504
39	UNIV OF TEXAS - AUSTIN	R FITZGERALD	GSFC	B TAPLEY	NAS 5 97213	508
39	UNIV OF TEXAS - DALLAS	C J POLLOCK	MSFC	J H HOFFMAN	NAS 8 39692	510
39	UNIV OF TEXAS - EL PASO	M MATEU	HQ	S A STARKS	NCCW 89	512
39	UNIV OF TEXAS - EL PASO	N KHAZENIE	GSFC	V HARDER	NAG 5 6163	511
39	UNIV OF TEXAS AT SAN ANTONIO	J C SAAER	KSC	M D DESAI	NAG10 155	513
39	UNIV OF TOLEDO	H W JONES	ARC	K R SRIDHAR	NCC 2 5220	435
39	UNIV OF UTAH	F G HALL	GSFC	J EHLERINGER	NAG 5 2241	514
39	UNIV OF VERMONT	D E WICKLAND	HQ	L A MORRISSEY	NAGW 5026	519
39	UNIV OF VERMONT	V C VANDERBILT	ARC	D P LIVINGSTON	NCC 2 5196	519
39	UNIV OF VIRGINIA	A C JANETOS	GSFC	C O JUSTICE	NAG 5 4368	535
39	UNIV OF VIRGINIA	A C JANETOS	GSFC	P DESANKER	NAG 5 6384	536

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39	UNIV OF VIRGINIA	A JANETOS	GSFC	H SHUGART	NAG 5 6043	535
39	UNIV OF VIRGINIA	A JANETOS	GSFC	T SMITH	NAG 5 6351	535
39	UNIV OF VIRGINIA	D E WICKLAND	HQ	H SHUGART	NAGW 4588	536
39	UNIV OF VIRGINIA	D WICKLAND	GSFC	H H SHUGART	NAG 5 6279	535
39	UNIV OF VIRGINIA	F G HALL	GSFC	H H SHUGART	NAG 5 2295	534
39	UNIV OF VIRGINIA	J S THEON	HQ	G HORNBERGER	NGT 30241	537
39	UNIV OF VIRGINIA	STOCKEY	GSFC	M GARSTANG	NAG 5 1961	534
39	UNIV OF WASHINGTON	A C JANETOS	GSFC	J RICHEY	NAG 5 4712	548
39	UNIV OF WASHINGTON	A C JANETOS	HQ	D P LETTENMAIER	NGT 30343	553
39	UNIV OF WASHINGTON	A T CHANG	GSFC	L TSANG	NAG 5 4739	548
39	UNIV OF WASHINGTON	C J TUCKER	GSFC	J B ADAMS	NAG 5 2821	546
39	UNIV OF WASHINGTON	D E WICKLAND	GSFC	D E RICHEY	NAG 5 3958	547
39	UNIV OF WASHINGTON	D E WICKLAND	GSFC	D R GILLESPIE	NAG 5 3729	547
39	UNIV OF WASHINGTON	D E WICKLAND	HQ	J B ADAMS	NAGW 5066	551
39	UNIV OF WASHINGTON	D E WICKLAND	HQ	J CASTLE	NAGW 4565	551
39	UNIV OF WASHINGTON	D E WICKLAND	HQ	J E RICHEY	NAGW 4444	550
39	UNIV OF WASHINGTON	D E WICKLAND	HQ	R A HOUZE	NAGW 5169	551
39	UNIV OF WASHINGTON	F G HALL	GSFC	D P LETTENMAIER	NAG 5 2294	545
39	UNIV OF WASHINGTON	G ASRAR	HQ	E RISKIN	NGT 30178	552
39	UNIV OF WASHINGTON	G ASRAR	HQ	L J CARLSON	NGT 30116	552
39	UNIV OF WASHINGTON	J S THEON	HQ	N UNTERSTEINER	NGT 30282	552
39	UNIV OF WASHINGTON	M J KURYLO	HQ	P D QUAY	NAGW 844	549
39	UNIV OF WASHINGTON	M Y WEI	GSFC	D LETTENMAIER	NAG 5 6365	548
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39	UNIV OF WASHINGTON	N KHAZENIE	GSFC	J M DECOSMO	NAG 5 6297	548
39	UNIV OF WASHINGTON	R E MURPHY	HQ	J E RICHEY	NAGW 2652	549
39	UNIV OF WASHINGTON	R H THOMAS	GSFC	S MARTIN	NAG 5 3624	546
39	UNIV OF WASHINGTON	R H THOMAS	HQ	R COLONY	NAGW 4382	550
39	UNIV OF WASHINGTON	RA SCHIFFER	HQ	P V HOBBS	NGT 30335	552
39	UNIV OF WASHINGTON	S GOGINENI	GSFC	D A ROTHROCK	NAG 5 4375	547
39	UNIV OF WASHINGTON	S GOGINENI	GSFC	D D WINBRENNER	NAG 5 4728	548
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39	UNIV OF WISCONSIN – MADISON	D E WICKLAND	GSFC	J A FOLEY	NAG 5 3513	561
39	UNIV OF WISCONSIN – MADISON	E KREINS	GSFC	W L SMITH	NAS 5 31377	565
39	UNIV OF WISCONSIN – MADISON	F G HALL	GSFC	S T GOWER	NAG 5 2601	560
39	UNIV OF WISCONSIN – MADISON	F HASLER	GSFC	G DIAK	NAG 5 2877	560
39	UNIV OF WISCONSIN – MADISON	G ASRAR	GSFC	G TRIPOLI	NGT 5 30037	566
39	UNIV OF WISCONSIN – MADISON	G SOFFEN	GSFC	C BENTLEY	NAS 5 33015	565
39	UNIV OF WISCONSIN – MADISON	J C DODGE	HQ	P MENZEL	NAGW 3804	563
39	UNIV OF WISCONSIN – MADISON	J C DODGE	HQ	W P MENZEL	NAGW 2973	563
39	UNIV OF WISCONSIN – MADISON	M WEI	GSFC	G R DIAK	NAG 5 3493	561
39	UNIV OF WISCONSIN – MADISON	M Y WEI	HQ	G R DIAK	NAGW 4138	564
39	UNIV OF WISCONSIN – MADISON	N LAL	GSFC	J W PERCIVAL	NAG 5 2694	560
39	UNIV OF WYOMING	A S MCGEE	HQ	W K SMITH	NAGW 4384	568
39	UNIV OF WYOMING	D E WICKLAND	GSFC	E HUNT	NAG 5 3861	568
39	UNIV OF WYOMING	F G HALL	GSFC	R D KELLY	NAG 5 2240	568
39	UNIV OF WYOMING	R H THOMAS	HQ	T R PARISH	NAGW 2666	568
39	UTAH STATE UNIV	E T ENGMAN	GSFC	C BINGHAM	NAG 5 2043	516
39	VALDOSTA STATE UNIV	J F DOWDY	MSFC	M LEAKE	NAG 8 1264	197
39	WAYNE STATE UNIV	D E WICKLAND	HQ	N S GOEL	NAGW 3260	327
39	WEBER STATE COLLEGE	F SIX	MSFC	D M VAUGHN	NAG 8 214	518
39	WEST CHESTER UNIV OF PA	N KHAZENIE	GSFC	R M BUSCH	NAG 5 6080	462
39	WEST VIRGINIA UNIV	A S MCGEE	HQ	F CALZONETTI	NAGW 4464	556
39	WESTERN MICHIGAN UNIV	JOYCE	SSC	C CHRISTOPHER	NAG13 60	327
39	WESTERN WASHINGTON UNIV	D E WICKLAND	HQ	D O WALLIN	NAGW 5034	555
39	WRIGHT STATE UNIV	J BERGSTRALH	HQ	J L FOX	NAGW 5229	437
39	YALE UNIV	N MAYNARD	HQ	P K BARTEN	NGT 30315	156
39	YALE UNIV	R H THOMAS	HQ	B SALTZMAN	NAGW 4197	155
41	ALABAMA A&M UNIV	L FOSTER	MSFC	G S KUAB	NAG 8 1365	2
41	ARIZONA STATE UNIV	A CHAIT	LERC	K D SQUIRES	NAG 3 2081	22
41	ARIZONA STATE UNIV	C L STREETT	LARC	H L REED	NAG 1 1158	21
41	ARIZONA STATE UNIV	E TU	ARC	A CHATTOPADHYAY	NCC 2 5064	25
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41	ARIZONA STATE UNIV	J HEEG	LARC	A CHATTOPADHYAY	NAG 1 1648	21
41	ARIZONA STATE UNIV	J R DAGENHART	LARC	W S SARIC	NCC 1 194	25
41	ARIZONA STATE UNIV	L TESSLER	LARC	E MADENCI	NAG 1 1731	22
41	ARIZONA STATE UNIV	R A THOMPSON	LARC	H L REED	NAG 1 1886	22
41	ARIZONA STATE UNIV	R D JOSLIN	LARC	W S SARIC	NAG 1 1925	22
41	AUBURN UNIV	C LAWRENCE	LERC	G T FLOWERS	NAG 3 1507	2
41	AUBURN UNIV	D F VORACEK	DFRC	D M BARRETT	NCC 4 103	3
41	AUBURN UNIV	F BUGG	MSFC	M A CUTCHINS	NAG 8 1295	3
41	AUBURN UNIV	J T HOWELL	MSFC	M ROSE	NCC 8 107	3
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41	AUBURN UNIV	R G KVATERNIK	LARC	G T FLOWERS	NGT 1 52120	4
41	BETHUNE - COOKMAN COLLEGE	S DUTCZAK	KSC	G W BECKLES	NAG10 195	165
41	BOSTON UNIV	G L MCANINCH	LARC	A D PIERCE	NAG 1 1580	280
41	BOSTON UNIV	T B GATSKI	LARC	C G SPEZIALE	NAG 1 1712	280
41	BRIGHAM YOUNG UNIV	G S SEIDEL	HQ	C D SORENSEN	NGT 10013	514
41	BRIGHAM YOUNG UNIV	S L PADULA	LARC	R BALLING	NAG 1 1694	513
41	BROWN UNIV	H L ATKINS	LARC	C W SHU	NAG 1 1145	462
41	BROWN UNIV	M D DAHL	LERC	J C LIU	NAG 3 2067	462
41	BROWN UNIV	M D DAHL	LERC	J T LIU	NAG 3 1484	462
41	BROWN UNIV	P C MURPHY	LARC	A E PEARSON	NAG 1 1932	462
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41	CALIFORNIA INST OF TECH	T S GATES	LARC	W G KNAUSS	NAG 1 1780	43
41	CALIFORNIA INST OF TECH	Y C CHO	ARC	M GHARIB	NAG 2 1087	43
41	CALIFORNIA POLYTECH STATE U-SAN LUIS	A H BOWERS	DFRC	T W CARPENTER	NAG 4 102	53
41	CALIFORNIA POLYTECH STATE U-SAN LUIS	D VORACEK	DFRC	F A KOLKAILAH	NCC 2 5110	54
41	CALIFORNIA POLYTECH STATE U-SAN LUIS	G C HILL	ARC	D J BEIZAD	NCC 2 800	53
41	CALIFORNIA POLYTECH STATE U-SAN LUIS	G S SEIDEL	HQ	R M CUMMINGS	NGT 10012	54
41	CALIFORNIA POLYTECH STATE U-SAN LUIS	J C ROSS	ARC	R M CUMMINGS	NCC 2 857	53
41	CALIFORNIA POLYTECH STATE U-SAN LUIS	M B TISCHER	ARC	D BIEZAD	NAG 2 1024	53
41	CALIFORNIA POLYTECH STATE U-SAN LUIS	M B TISCHER	ARC	D BIEZAD	NAG 2 1092	53
41	CALIFORNIA POLYTECH STATE U-SAN LUIS	M B TISCHER	ARC	D BIEZAD	NCC 2 983	54
41	CALIFORNIA POLYTECH STATE U-SAN LUIS	M W KEHOE	DFRC	F KOLKAILAH	NAG 4 138	53
41	CALIFORNIA POLYTECH STATE U-SAN LUIS	P A GELHAUSEN	ARC	D BIEZAD	NCC 2 834	53
41	CALIFORNIA STATE UNIV - LONG BEACH	L RICHARDS	DFRC	H YEH	NCC 4 107	55
41	CALIFORNIA STATE UNIV - LOS ANGELES	E L DUKE	DFRC	T ADENIKA-MORROW	NAG 4 127	55
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41	CALIFORNIA STATE UNIV - LOS ANGELES	L DUKE	DFRC	S H LEE	NAG 4 119	55
41	CALIFORNIA STATE UNIV-BAKERSFIELD	D MACKALL	DFRC	D L NYBERG	NAG 4 108	56
41	CALIFORNIA WESTERN SCH OF LAW	B E LEWANDOWSKI	LERC	A L JOHNSON	NAG 3 2001	56
41	CARNEGIE - MELLON UNIV	B P WILLIS	LERC	T I-P SHIH	NAG 3 1994	444
41	CARNEGIE - MELLON UNIV	M D SALAS	LARC	S TA	NAG 1 1666	444
41	CARNEGIE - MELLON UNIV	W K ANDERSON	LARC	S TA	NAG 1 1687	444
41	CASE WESTERN RESERVE UNIV	D E BREWE	LERC	M L ADAMS	NAG 3 2053	414
41	CASE WESTERN RESERVE UNIV	D LONGEDDY	HQ	P S T	NGT 51414	417
41	CASE WESTERN RESERVE UNIV	F A NEWMAN	LERC	F E MCCAUGHAN	NAG 3 1179	414
41	CASE WESTERN RESERVE UNIV	J J ADAMCZYK	LERC	J R KADAMBF	NCC 3 263	415
41	CASE WESTERN RESERVE UNIV	M G POTHPCZUK	LERC	E RESHOTKO	NCC 3 498	416
41	CASE WESTERN RESERVE UNIV	S M ARNOLD	LERC	R M AIKEN	NCC 3 464	416
41	CENTRAL STATE UNIV - OHIO	C E COLE-HAMILTON	LERC	D A IKOMI	NAG 3 1787	418
41	CENTRAL STATE UNIV - OHIO	R R TACINA	LERC	C B OKHIO	NAG 3 1670	418
41	CHRISTOPHER NEWPORT UNIV	J C HARDIN	LARC	J E MARTIN	NAG 1 1888	519
41	CITY UNIV OF NY CITY COLLEGE	D M BUSHNELL	LARC	C WATKINS	NAG 1 1590	370
41	CITY UNIV OF NY CITY COLLEGE	K J BREISACHER	LERC	P P HO	NAG 3 2074	370
41	CITY UNIV OF NY CITY COLLEGE	M G MACARAEG	LARC	A ACRIVOS	NAG 1 1159	370
41	CLARK ATLANTA UNIV	E M LEE-RAUSCH	LARC	J SINGH	NAG 1 1760	184
41	CLARK ATLANTA UNIV	H D ROSS	LERC	Y D YEBOAH	NAG 3 1773	185
41	CLARK ATLANTA UNIV	J H STARNES	LARC	A BADIR	NAG 1 1714	184
41	CLARK ATLANTA UNIV	R R TACINA	LERC	R R TACINA	NAG 3 1996	185
41	CLARK ATLANTA UNIV	T S GATES	LARC	D R VEAZIE	NAG 1 1727	184
41	CLARK ATLANTA UNIV	T S GATES	LARC	D R VEAZIE	NAG 1 1919	185
41	CLARKSON UNIV	J M SEINER	LARC	M GLAUSER	NAG 1 1699	371
41	CLARKSON UNIV	M MOORE	ARC	G AHMADI	NGT 51314	371
41	CLARKSON UNIV	P HARNEY	DFRC	M N GLAUSER	NAG 2 724	371
41	CLARKSON UNIV	W L SELLERS	LARC	M GLAUSER	NGT 1 52102	372
41	CLEMSON UNIV - CLEMSON	C C CHAMIS	LERC	G FADEL	NAG 3 2046	467

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41	CLEMSON UNIV - CLEMSON	R HATHAWAY	LARC	D DINGER	NGT 1 52153	469
41	CLEVELAND STATE UNIV	K JULES	LERC	P P LIN	NAG 3 2029	419
41	CLEVELAND STATE UNIV	W MORALES	LERC	E E GRAHAM	NCC 3 403	420
41	COLLEGE OF WILLIAM AND MARY	J A HINKLEY	LARC	R A ORWOLL	NAG 1 1926	520
41	COLLEGE OF WILLIAM AND MARY	J M SEINER	LARC	D MANOS	NAG 1 1856	520
41	COLLEGE OF WILLIAM AND MARY	J R SCHIESS	LARC	S PORK	NGT 1 52165	521
41	COLORADO STATE UNIV	R J GUNDERMAN	LERC	V N BRINGI	NAS 3 26410	129
41	CORNELL UNIV	C KITAPLIOGLU	ARC	A R GEORGE	NAG 2 554	380
41	CORNELL UNIV	J P DRUMMOND	LARC	S B POPE	NAG 1 1542	380
41	CORNELL UNIV	L A POUINELLI	LERC	J LUMLEY	NAG 3 1969	381
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41	CUYAHOGA COMM COLLEGE	F H YARRIS	LERC	R L MOSS	NAG 3 1778	422
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41	DREXEL UNIV	D D ROSS	LERC	G A RUFF	NAG 3 2043	446
41	DREXEL UNIV	R R TACINA	LERC	K J CHOI	NAG 3 1421	446
41	DUKE UNIV	D HOYNIAK	LERC	K HALL	NAG 3 1433	401
41	DUKE UNIV	R J SILCOX	LARC	R L CLARK	NAG 1 1570	401
41	DUKE UNIV	S R COLE	LARC	E H DOWELL	NAG 1 1569	401
41	EMBRY-RIDDLE AERONAUTICAL UNIV	B J HOLMES	LARC	S HAMPTON	NCA 1 133	166
41	FLA INTERNATIONAL UNIV	A M MITSKEVICH	KSC	M A CENTENO	NAG10 150	167
41	FLORIDA A&M UNIV	A H AUSLENDER	LARC	J A JOHNSON	NAG 1 1930	167
41	FLORIDA A&M UNIV	J C ROSS	ARC	A KROTHAPALLI	NCC 2 956	168
41	FLORIDA A&M UNIV	J G MARVIN	ARC	J A JOHNSON III	NAG 2 929	167
41	FLORIDA A&M UNIV	W SELLERS	LARC	J JOHNSON	NCC 1 252	168
41	FLORIDA ATLANTIC UNIV	J H STARNES	LARC	I ELISHAKOFF	NAG 1 1310	169
41	FLORIDA ATLANTIC UNIV	J W POSEY	LARC	S A GLEGG	NAG 1 1202	169
41	FLORIDA ATLANTIC UNIV	T H GUO	LERC	A DUYAR	NAG 3 1817	169
41	FLORIDA INST OF TECH	B J HOLMES	LARC	A F STOKES	NCA 1 145	170
41	FLORIDA INST OF TECH	P A PADILLA	LARC	A F STOKES	NAG 1 1957	169
41	FLORIDA MEMORIAL COLLEGE	J DIGGS	KSC	D T COLEMAN	NAG10 196	170
41	FLORIDA STATE UNIV	D J WING	LARC	A KROTHAPALLI	NAG 1 1817	171
41	FLORIDA STATE UNIV	E A KREJSA	LERC	C K TAM	NAG 3 1683	171
41	FLORIDA STATE UNIV	J FLORES	ARC	M Y HUSSAINI	NAG 2 1082	171
41	FLORIDA STATE UNIV	J M SEINER	LARC	L LOURENCO	NAG 1 1952	171
41	FLORIDA STATE UNIV	J M SEINER	LARC	M Y HUSSANI	NAG 1 1889	171
41	FLORIDA STATE UNIV	L A POVINELLI	LERC	M Y HUSSANINI	NAG 3 1962	171
41	FLORIDA STATE UNIV	R A GOLUB	LARC	C K TAM	NAG 1 421	170
41	GEORGE WASHINGTON UNIV	E C WYNNE	LARC	R H TOLSON	NCC 1 208	159
41	GEORGE WASHINGTON UNIV	G S DISKIN	LARC	A D CUTLER	NCC 1 217	159
41	GEORGE WASHINGTON UNIV	L R CLARK	LARC	H LIEBOWITZ	NCC 1 14	159
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41	GEORGE WASHINGTON UNIV	R L YANG	LARC		NAS 1 19699	159
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41	GEORGIA INST OF TECH	E A PALMER	ARC	C M MITCHELL	NCC 2 961	191
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41	GEORGIA INST OF TECH	G L GILES	LARC	D N MAVRIS	NAG 1 1662	186
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41	GEORGIA INST OF TECH	G L GILES	LARC	M R KIRBY	NGT 1 52111	192
41	GEORGIA INST OF TECH	G S SEIDEL	HQ	D P SCHRAGE	NGT 10007	191
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41	GEORGIA INST OF TECH	J T HOWELL	GSFC	J R OLDS	NCC 8 108	191
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41	HAMPTON UNIV	MAUNG	LARC	K MAUNG	NAG 1 1789	524
41	HAMPTON UNIV	S E MASSENBERG	LARC	C REAVES	NAG 1 1834	524
41	HOWARD UNIV	D NOCA	LERC	D FAINOH	NCC 3 504	162
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41	INST OF THEORETICAL AND APPLIED MECH	D M BUSHNELL	LARC	A A MASLOV	NCC 1 240	571
41	IOWA STATE UNIV	J J BURKEN	DFRC	D LU	NCC 4 104	232
41	IOWA STATE UNIV	K L SUDER	LERC	T H OKIISHI	NAG 3 1302	230
41	IOWA STATE UNIV	K SUDER	LERC	T H OKIISM	NAG 3 2042	231
41	IOWA STATE UNIV	P A GNOFFO	LARC	G R INGER	NAG 1 1807	230
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41	JACKSON STATE UNIV	D E NOGA	LERC	D N BHALLA	NCC 3 437	333
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41	KANSAS STATE UNIV	D M JOSHI	LARC	D G KELKAR	NCC 1 226	238
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41	LOUISIANA TECH UNIV	C H LIU	LARC	C LIU	NAG 1 1844	245
41	LOUISIANA TECH UNIV	C H LIU	LARC	C LIU	NAG 1 1891	245
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41	LOYOLA MARYMOUNT UNIV	K K GUPTA	DFRC	R NOORANI	NAG 4 115	57
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41	MASSACHUSETTS INST OF TECH	M MIZUKAMI	LERC	C S TAN	NAG 3 1591	293
41	MASSACHUSETTS INST OF TECH	M T PALMER	LARC	R J HANSMAN	NAG 1 1857	292
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41	MISSISSIPPI STATE UNIV	D L HUFF	LERC	J M JANUS	NAG 3 1699	333
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41	OLD DOMINION UNIV	D R AMBUR	LARC	D F KNIGHT	NAG 1 1858	528
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41	UNIV OF MARYLAND - COLLEGE PARK	S MASSENBERG	LARC	M J LEWIS	NAG 1 1796	261
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41	UNIV OF OKLAHOMA – NORMAN	J M HOUSNER	LARC	D G STRIZ	NAG 1 1820	438
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41	UNIV OF QUEENSLAND	R C ROGERS	LARC	R G MORGAN	NAG 1 1846	572
41	UNIV OF SOUTH ALABAMA	F H PROCTOR	LARC	Z C ZHENG	NAG 1 1911	18
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42	UNIV OF TEXAS AT SAN ANTONIO	B L WHITE	HQ	L BOYCE	NAGW 4114	513
42	UNIV OF TOLEDO	R M STUBBS	LERC	K J DEWITT	NCC 3 229	435
42	UNIV OF VIRGINIA	M D RHODES	LARC	E A THORNTON	NGT 1 52110	538
42	UNIV OF WISCONSIN - MADISON	J D DAGEN	JSC	D C KAMMER	NAG 9 953	563
42	UNIV OF WISCONSIN - MADISON	M NALL	MSFC	R J BULA	NCC 8 129	565
42	UTAH STATE UNIV	D W PLACHTA	LERC	J C BATTY	NAS 3 97106	517
42	UTAH STATE UNIV	M D VANEK	LARC	J ULWICK	NAS 1 20467	517
42	UTAH STATE UNIV	R LAKE	MSFC	R W SCHUNK	NAS 8 37110	517
42	VA POLYTECH INST & ST UNIV	C J CAMARDA	LARC	L LIBRESCU	NAG 1 1689	540
42	VA POLYTECH INST & ST UNIV	S S WELCH	LARC	G INDEBETOUW	NAG 1 1363	539
42	WORCESTER POLYTECH INST	E J PENCIL	LERC	D A GATSOMIS	NAG 3 1873	312
42	YORK UNIV	J K KALINOWSKI	GSFC	J J CALDWELL	NAS 5 30294	572
43	AUBURN UNIV	D L BRITTON	LERC	B J TATARCHUK	NAG 3 1154	2
43	CALIFORNIA INST OF TECH	G A ZIMMERK	LERC	G T SMEDLEY	NAS 3 27263	51
43	CASE WESTERN RESERVE UNIV	A NURRIDDIN	HQ	M BOULDING	NGT 5 90056	418
43	CASE WESTERN RESERVE UNIV	G HUNTER	LERC	C C LIU	NCC 3 556	417
43	CASE WESTERN RESERVE UNIV	G W HUNTER	LERC	C C LIU	NAG 3 1741	414
43	CASE WESTERN RESERVE UNIV	G W HUNTER	LERC	C C LIU	NAG 3 1966	414
43	CASE WESTERN RESERVE UNIV	G W HUNTER	LERC	C C LIU	NCC 3 378	416
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43	CASE WESTERN RESERVE UNIV	G W HUNTER	LERC	C C LIU	NCC 3 574	417
43	CASE WESTERN RESERVE UNIV	T K GLASGOW	LERC	J MANN	NCC 3 533	417
43	CLARK ATLANTA UNIV	K K GUPTA	DFRC	L T MOETI	NAG 4 11	185
43	CLEVELAND STATE UNIV	P R PROKOPIUS	LERC	G COULMAN	NCC 3 342	420
43	COLORADO SCH OF MINES	R FRIEDMAN	LERC	J T MCKINNON	NAG 3 1628	127
43	CORNELL UNIV	A NURRIDDIN	HQ	D SALTZMAN	NGT 51710	387
43	CORNELL UNIV	B S SINGH	LERC	P H STEEN	NAG 3 1854	381
43	CORNELL UNIV	D MONTEGANI	LERC	D STEEN	NGT 3 52318	387
43	FLORIDA A&M UNIV	A JOYCE	SSC	S PANCHOLY	NAG13 43	168
43	FLORIDA STATE UNIV	P H RHODES	MSFC	B R LOCKE	NAG 8 1163	172
43	HAMPTON UNIV	G B NORTHAM	LARC	J F AKYURTLU	NAG 1 1636	524
43	HUSTON-TILLOTSON COLLEGE	P D FAUGHNAN	KSC	L J BAYE	NAG10 153	480
43	INDIANA UNIV - BLOOMINGTON	V SCHEIDER	HQ	D P HANGARTER	NAGW 4730	224
43	IOWA STATE UNIV	T A EDWARDS	ARC	D K ROLLINS	NAG 2 909	230
43	JOHNS HOPKINS UNIV	B S SINGH	LERC	K J STEBE	NAG 3 1923	251
43	JOHNS HOPKINS UNIV	B SINGH	LERC	M E PAULATIS	NAG 3 1954	251
43	JOHNS HOPKINS UNIV	D GLASCO	HQ	D SALTZMAN	NGT 51413	259
43	JOHNS HOPKINS UNIV	G LASANE	HQ	W M SALTZMAN	NGT 51134	259
43	JOHNS HOPKINS UNIV	G LESANE	HQ	M SALTZMAN	NGT 51687	259
43	MASSACHUSETTS INST OF TECH	F R SZOFRAN	MSFC	R A BROWN	NAG 8 962	300
43	MASSACHUSETTS INST OF TECH	L SHAW	LERC	R E COHEN	NGT 3 52307	307
43	MASSACHUSETTS INST OF TECH	M MATEU	HQ	L OSGOOD	NGT 90149	306
43	MASSACHUSETTS INST OF TECH	S L LEHOCZKY	MSFC	R A BROWN	NAG 8 961	300
43	MICHIGAN TECHNOLOGICAL UNIV	J E FINN	ARC	D W HAND	NAG 2 820	314
43	NORTH CAROLINA A&T STATE UNIV	G ALLEN	KSC	G WHITE	NAG10 201	406
43	NORTH CAROLINA STATE UNIV	J E FINN	ARC	D F OLLIS	NAG 2 684	407
43	NORTH CAROLINA STATE UNIV	R LAWRENCE	GSFC	W COLEMAN	NGT 5 90051	410
43	NORTHWESTERN UNIV	S A GOKOGLU	LERC	B J MATKOWSKY	NAG 3 1608	207
43	PRINCETON UNIV	B CARPENTER	HQ	D A SAVILLE	NGT 51073	360
43	PRINCETON UNIV	G A LESANE	HQ	D A SAVILLE	NGT 51343	360
43	PRINCETON UNIV	L SHAW	LERC	W B RUSSEL	NGT 3 52301	360
43	PURDUE UNIV	G LESANE	HQ	M K OKOS	NGT 51670	228
43	SOUTHERN ILLINOIS UNIV - CARBONDALE	J E FINN	ARC	B A DEVANTIER	NCC 2 5122	210
43	SOUTHERN UNIV & A&M COLLEGE	A J HATCH	ARC	S K TRIVEDI	NAG 2 1015	245
43	STANFORD UNIV	G A ZIMMERLI	LERC	A P GAST	NAG 3 1652	64
43	STANFORD UNIV	G ALESANE	HQ	G M HOMSY	NGT 51344	71
43	SYRACUSE UNIV	H K NAHRA	LERC	A S SANGANI	NAG 3 1630	399
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43	UNIV HOUSTON	D MONTEGANI	LERC	V BALAKOTAIH	NGT 3 52314	496
43	UNIV OF CALIFORNIA - BERKELEY	J W HINES	ARC	R M WHITE	NCC 2 5185	84
43	UNIV OF CALIFORNIA - SANTA BARBARA	B S SINGH	LERC	L LEAL	NAG 3 1896	116
43	UNIV OF CALIFORNIA - SANTA BARBARA	D MONTEGANI	LERC	S BANERJEE	NGT 3 52317	119
43	UNIV OF CALIFORNIA - SANTA BARBARA	G A LESANE	HQ	L G LEAL	NGT 51342	119
43	UNIV OF CINCINNATI	T R BRUNEEL	HQ	L P COOPER	NGT 10031	432
43	UNIV OF COLORADO - BOULDER	G CRESS	JSC	R CULP	NAG 9 768	141
43	UNIV OF COLORADO - BOULDER	J A SALZMAN	LERC	R H DAVIS	NAG 3 1389	132
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43	UNIV OF COLORADO - BOULDER	T Y MILLER	MSFC	R H DAVIS	NAG 8 945	141
43	UNIV OF DELAWARE	B S SINGH	LERC	E W KALER	NAG 3 1955	157
43	UNIV OF DELAWARE	G A LESANE	HQ	E W KALER	NGT 51347	157
43	UNIV OF DELAWARE	G LESANE	HQ	A M LENHOFF	NGT 51389	157
43	UNIV OF FLORIDA	B S SINGH	LERC	C W PARK	NAG 3 1635	176
43	UNIV OF FLORIDA	D GLASCO	HQ	R NARAYANAN	NGT 51410	179
43	UNIV OF FLORIDA	D MONTEGANI	HQ	R NARAYANAN	NGT 3 52320	180
43	UNIV OF FLORIDA	F MONTEGANI	LERC	R NARAYANAN	NGT 51242	179
43	UNIV OF FLORIDA	G LESANE	HQ	R NARAYARAN	NGT 51695	180
43	UNIV OF FLORIDA	P N PETERS	MSFC	T J ANDERSON	NCC 8 51	179
43	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	B CARPENTER	HQ	F B VAN SWOL	NGT 51064	222
43	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	M PUSEY	MSFC	E B VAN SWOL	NAG 8 976	220
43	UNIV OF IOWA	D LONGEDDY	HQ	D M WIENCEK	NGT 51422	237
43	UNIV OF IOWA	DGLASCO	HQ	J M WIENCEK	NGT 51412	237
43	UNIV OF IOWA	G LESANE	HQ	J WIENCEK	NGT 51686	237
43	UNIV OF NEW HAMPSHIRE - DURHAM	J M HOELL	LARC	R W TALBOT	NAG 1 1233	350
43	UNIV OF NEW MEXICO	R LAWRENCE	GSFC	G WARD	NGT 5 90050	369
43	UNIV OF PUERTO RICO - MAYAGUEZ	G ALLEN	KSC	N K MEHTA	NAG10 159	570
43	UNIV OF SOUTHERN MISSISSIPPI	G LESANE	HQ	L J MATHIAS	NGT 51261	335
43	UNIV OF TOLEDO	J FISHER	ARC	M ABRAHAM	NCC 2 5215	435
43	UNIV OF VIRGINIA	J E FINN	ARC	M D LEVAN	NGT 2 52203	538
43	UNIV OF VIRGINIA	M BURRELL	GSFC	L U LILLELEHET	NGT 51094	538
43	VA POLYTECH INST & ST UNIV	R LAWRENCE	GSFC	J NOTTINGHAM	NGT 5 90011	543
43	VANDERBILT UNIV	G L PELLETT	LARC	T M BROWN	NGT 1 52106	479
43	VANDERBILT UNIV	J E FINN	ARC	M D LEVAN	NCC 2 992	478
43	WASHINGTON UNIV	E BARKER	HQ	B FOGLEY	NAGW 4795	342
43	WASHINGTON UNIV	F MONTEGANI	LERC	W BUHRO	NGT 3 52313	342
43	YALE UNIV	B S SINGH	LERC	D E ROSNER	NAG 3 1951	154
43	YALE UNIV	B SINGH	LERC	M LOEWENBERG	NAG 3 1935	154
43	YALE UNIV	T Y MILLER	MSFC	M LOEWENBERG	NAG 8 1127	155
44	CARNEGIE - MELLON UNIV	R AVANT	GSFC	T EAGAN	NAG 5 4748	444
44	CITY UNIV OF NY CITY COLLEGE	D K RUSSELL	HQ	A R BROWN	NGT 90251	371
44	CLEVELAND STATE UNIV	J R ELLIS	LERC	J H HEMANN	NAG 3 1543	418
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44	COLORADO STATE UNIV	D K RUSSELL	HQ	W Z SADEH	NGT 70373	130
44	COLORADO STATE UNIV	J K ALEXANDER	HQ	W Z SADEH	NGT 50929	130
44	GEORGIA INST OF TECH	J LUCERO	LERC	O G MCGEE	NAG 3 1754	188
44	LOUISIANA STATE UNIV - BATON ROUGE	E MASSEY	HQ	D D ADRIAN	NGT 51215	244
44	MORGAN STATE UNIV	B G BILLS	GSFC	D C HELM	NCC 5 199	260
44	MORGAN STATE UNIV	R LAWRENCE	GSFC	E DELOATCH	NGT 5 90053	260
44	NEW MEXICO STATE UNIV - LAS CRUCES	R LAWRENCE	GSFC	P HYNES	NGT 5 90054	367
44	NORTH CAROLINA STATE UNIV	D K RUSSELL	HQ	W COLEMAN	NGT 90270	410
44	OLD DOMINION UNIV	D K RUSSELL	HQ	N BROWN	NGT 90279	531
44	OLD DOMINION UNIV	O O STORAASLI	LARC	D T NGUYEN	NAG 1 858	527
44	OLD DOMINION UNIV	R LAWRENCE	GSFC	N BRONW-HILL	NGT 5 90043	532
44	THE UNIV OF CENTRAL FLORIDA	C L JENKINS	KSC	S S KUO	NAG10 158	173
44	UNIV OF CALIFORNIA - IRVINE	R LAWRENCE	GSFC	F HERMES	NGT 5 90002	94
44	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	R HAMPTON	ARC	R H DODDS	NCC 2 5126	221
44	UNIV OF UTAH	G LESANE	HQ	R SHARP	NGT 51673	516
45	ARIZONA STATE UNIV	D G SHIVELY	LARC	J T ABERLE	NAG 1 1630	21
45	ARIZONA STATE UNIV	G C BARBER	LARC	C A BALANIS	NAG 1 1082	21
45	ARIZONA STATE UNIV	K J MOELLER	LARC	C BALANIS	NAG 1 1781	22
45	ARIZONA STATE UNIV	M C GILREATH	LARC	C A BALANIS	NAG 1 562	21
45	AUBURN UNIV	D K HALL	MSFC	S A MERRYMAN	NAG 8 1058	3
45	AUBURN UNIV	J A HAMLEY	LERC	M F ROSE	NAG 3 1930	2

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45	BUCKNELL UNIV	J RALL	GSFC	S M LORD	NAG 5 3669	444
45	CALIFORNIA INST OF TECH	M JOY	MSFC	L E GREGO	NGT 8 52820	53
45	CARNEGIE - MELLON UNIV	C HIX	JPL	R SIMMONS	NGT 51039	445
45	CARNEGIE - MELLON UNIV	F SIX	MSFC	E KROTKOV	NGT 51045	445
45	CARNEGIE - MELLON UNIV	S GOLDSTEIN	JSC	B V KUMAR	NGT 51231	445
45	CASE WESTERN RESERVE UNIV	A J RATAJCZAK	LERC	S OSTRACH	NAG 3 886	414
45	CASE WESTERN RESERVE UNIV	D K RUSSELL	HQ	S PHILIPS	NGT 70407	417
45	CASE WESTERN RESERVE UNIV	P G NEUDECK	LERC	M TABIB-AZAR	NCC 3 294	415
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45	CASE WESTERN RESERVE UNIV	S G BAILEY	LERC	M TABIB-AZAR	NCC 3 503	416
45	CHRISTOPHER NEWPORT UNIV	R S ROGOWSKI	LARC	A M BUONCRISTIANI	NAG 1 1443	519
45	CITY UNIV OF NY CITY COLLEGE	B S GOOD	LERC	R R ALFANO	NAG 3 1490	370
45	CITY UNIV OF NY SYSTEM	R LAWRENCE	GSFC	C WATKINS	NGT 5 90060	371
45	CLARK ATLANTA UNIV	S A ALTERNOVITZ	LERC	M D WILLIAMS	NAG 3 1973	185
45	CLEMSON UNIV - CLEMSON	D J DAVIS	GSFC	W B LING	NAG 5 3053	467
45	CLEMSON UNIV - CLEMSON	D K RUSSELL	HQ	J S LASSER	NGT 90253	469
45	CLEMSON UNIV - CLEMSON	G BUCKINGHAM	KSC	D DAWSON	NGT10 52611	469
45	CLEMSON UNIV - CLEMSON	L D STATON	LARC	E G BAXA	NAG 1 1634	467
45	CLEVELAND STATE UNIV	H KIM	LERC	P CHU	NAG 3 1379	418
45	CLEVELAND STATE UNIV	K JULES	LERC	P P CHU	NAG 3 2040	419
45	CLEVELAND STATE UNIV	S G BAILEY	LERC	C GORADIA	NAG 3 1795	419
45	DREXEL UNIV	D I SOLOWAY	LARC	S GRAY	NCC 1 171	447
45	FISK UNIV	D J LARKIN	LERC	W E COLLINS	NAG 3 2012	473
45	FLORIDA A&M UNIV	G C RYBICKI	LERC	S M DURBIN	NAG 3 1971	168
45	FLORIDA ATLANTIC UNIV	T H GUO	LERC	W E GLENN	NAG 3 2023	169
45	GEORGE WASHINGTON UNIV	L L THOMPSON	GSFC	N CHAUHAN	NAG 5 4294	158
45	GEORGIA INST OF TECH	D K RUSSELL	HQ	R GERHARDT	NGT 70356	192
45	GEORGIA INST OF TECH	F SIX	MSFC	W T RHODES	NGT 51042	191
45	GEORGIA INST OF TECH	J H TUCKER	LARC	V K MADISETTI	NAG 1 1624	186
45	GEORGIA INST OF TECH	J S THEON	HQ	A J GASIEWSKI	NAGW 4191	190
45	GEORGIA INST OF TECH	P S YEH	GSFC	M J SMITH	NAG 5 2187	188
45	HAMPTON UNIV	F D BECK	LARC	A O OLADIPUPO	NCC 1 231	525
45	HOWARD UNIV	A S BURGESS	GSFC	R CHOWDHARY	NAG 5 1049	161
45	HOWARD UNIV	D F NOGA	LERC		NAG 3 1661	160
45	HOWARD UNIV	D F NOGA	LERC	A RUBARI	NAG 3 2030	161
45	HOWARD UNIV	J A POWELL	LERC	G L HARRIS	NAG 3 1406	160
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45	HOWARD UNIV	J F SELLERS	LERC	J A MOMOH	NAG 3 1426	160
45	HOWARD UNIV	J J NAINIGER	LERC	J A MOMOH	NAG 3 1743	160
45	HOWARD UNIV	J L DOLCE	LERC	J A MOMOH	NAG 3 1978	161
45	HOWARD UNIV	L A VITERNA	LERC	J A MOMOH	NAG 3 1675	160
45	HOWARD UNIV	L VITERNA	LERC	J A MOMOH	NAG 3 1931	161
45	HOWARD UNIV	M D KANKAM	LERC	A RUBAAI	NCC 3 571	162
45	IOWA STATE UNIV	G SOFFEN	GSFC	J P BASART	NGT 51020	232
45	IOWA STATE UNIV	J HALE	MSFC	C L CLOVER	NGT 8 52822	233
45	IOWA STATE UNIV	M NAMKUNG	LARC	W LORD	NAG 1 1799	230
45	JOHNS HOPKINS UNIV	D C VANDEMARK	GSFC	D R THOMPSON	NAG 5 5138	255
45	JOHNS HOPKINS UNIV	N NAMKUNG	LARC	S NATH	NAG 1 1673	250
45	JOHNS HOPKINS UNIV	P MILLAR	GSFC	M DAVIDSON	NAG 5 2232	251
45	KENT STATE UNIV	A F HEPP	LERC	C VORGAS-ABURTO	NCC 3 394	422
45	LA GUARDIA COMMINITY COLLEGE	D K RUSSELL	HQ	C WATKINS	NGT 90053	388
45	MARQUETTE UNIV	J HINES	ARC	D C JEUTTER	NCC 2 5108	558
45	MARQUETTE UNIV	J W HINES	ARC	D JEUTTER	NCC 2 5228	558
45	MASSACHUSETTS INST OF TECH	S P SANDFORD	LARC	A F WITT	NAG 1 1915	292
45	MISSISSIPPI STATE UNIV	D J LARKIN	LERC	S E SADDOW	NAG 3 2073	334
45	MISSISSIPPI STATE UNIV	H L THOMAS	MSFC	F M INGELS	NAG 8 104	334
45	NEW MEXICO STATE UNIV - LAS CRUCES	N SCHULTZ	GSFC	A BAKER	NAS 5 32252	367
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45	OREGON STATE UNIV	GLESANE	HQ	D SNOW	NGT 51692	442
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45	RICE UNIV	C HESS	JSC	I D WALKER	NAG 9 740	484
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45	SAN DIEGO STATE UNIV	M ANDRO	LERC	F HARRIS	NAG 3 2050	58
45	SPELMAN COLLEGE	B WHITE	HQ	E FALCONER	NGT 90003	196
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45	TENNESSEE STATE UNIV	D K RUSSELL	HQ	D ROGERS	NGT 90274	474
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45	TEXAS A&M UNIV	C LIVINGSTON	HQ	F R BEST	NAGW 1194	490
45	TEXAS A&M UNIV	K HURLBERT	JSC	J S YAGOOBI	NAG 9 882	489
45	TEXAS SOUTHERN UNIV	B J BRAGG	JSC	A R CHOWDHURY	NAG 9 781	493
45	TEXAS TECH UNIV	L R PINERO	LERC	E A O	NAG 3 2005	493
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45	TUSKEGEE UNIV	D C FERGUSON	LERC	C V DORESWAMY	NAG 3 1904	5
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45	UNIV HOUSTON	T JEFFCOAT	JSC	D E BORING	NAG 9 892	495
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45	UNIV OF CALIFORNIA - BERKELEY	S S WEGENER	ARC	R M WHITE	NCC 2 968	83
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46	TEXAS A&M UNIV	G T MONTAGUE	LERC	A B PALAZZOLO	NAG 3 1990	487
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46	TEXAS A&M UNIV	P VALLELY	MSFC	J J MOORE	NGT 8 52815	492
46	TEXAS A&M UNIV	S A HIPPENSTEELE	LERC	S C LAU	NAG 3 1980	487
46	TEXAS A&M UNIV	S GOLDSTEIN	JSC	J S YAGOOBI	NGT 51232	491
46	TUSKEGEE UNIV	K GROSS	MSFC	D A IBRAHIM	NAG 8 1246	5
46	UNIV HOUSTON	B S MOTIL	LERC	V BALAKOTAIAH	NAG 3 1840	494
46	UNIV HOUSTON	D ARNDT	JSC	D WEINSTEIN	NAG 9 900	495
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46	UNIV HOUSTON	R LAWRENCE	GSFC	G F PASKUSZ	NGT 5 90044	496
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46	UNIV OF AKRON	W B DUVAL	LERC	C BATUR	NCC 3 567	431
46	UNIV OF ALABAMA – HUNTSVILLE	B G PENN	MSFC	R J HUNG	NCC 8 38	14
46	UNIV OF ALABAMA – HUNTSVILLE	D K RUSSELL	HQ	L RUSSELL	NGT 90248	15
46	UNIV OF ALABAMA – HUNTSVILLE	E MASSEY	HQ	C W HAWK	NGT 51371	14
46	UNIV OF ALABAMA – HUNTSVILLE	J J HUTT	MSFC	D FEIKEMA	NGT 8 52804	15
46	UNIV OF ALABAMA – HUNTSVILLE	M A STOUTSENBERGER	HQ	W P SCHONBERG	NGT 70253	15
46	UNIV OF ALABAMA – HUNTSVILLE	R KOCZOR	MSFC	N LI	NAG 8 1217	11
46	UNIV OF ALABAMA – HUNTSVILLE	R LAWRENCE	GSFC	L RUSSELL	NGT 5 90020	15
46	UNIV OF ALABAMA – HUNTSVILLE	T KUBLIN	MSFC	R A FREDERICK	NAG 8 1216	11
46	UNIV OF ALABAMA – UNIV	D K RUSSELL	HQ	J K PARKER	NGT 70379	17
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46	UNIV OF ARIZONA	D K RUSSELL	HQ	A ORTEGA	NGT 70403	41
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46	UNIV OF CALIFORNIA – BERKELEY	B S SINGH	LERC	V P CAREY	NAG 3 1633	73
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46	UNIV OF CALIFORNIA – BERKELEY	G LESANE	HQ	R KRAM	NGT 51416	86
46	UNIV OF CALIFORNIA – BERKELEY	H D ROSS	LERC	A C FERNANDEZ–PELLO	NCC 3 478	84
46	UNIV OF CALIFORNIA – BERKELEY	P HUNTER	HQ	M HOLT	NGT 51030	85
46	UNIV OF CALIFORNIA – BERKELEY	S R ELLIS	ARC	H KAZERACNI	NCC 2 909	83
46	UNIV OF CALIFORNIA – DAVIS	F P CHIARAMONTE	LERC	B D SHAW	NCC 3 353	91
46	UNIV OF CALIFORNIA – DAVIS	K J WEILAND	LERC	R C ALDREDGE	NAG 3 1558	88
46	UNIV OF CALIFORNIA – IRVINE	H D ROSS	LERC	S E ELGHOBASHI	NAG 3 1605	92
46	UNIV OF CALIFORNIA – IRVINE	H D ROSS	LERC	W A SIRIGNANO	NAG 3 2024	92
46	UNIV OF CALIFORNIA – LOS ANGELES	B S SINGH	LERC	R E KELLY	NAG 3 1819	95

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46	UNIV OF COLORADO - BOULDER	R FRIEDMAN	LERC	M C BRANCH	NAG 3 1685	132
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46	UNIV OF HAWAII - MANOA	A TESSLER	LARC	H R RIGGS	NAG 1 1487	198
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46	UNIV OF ILLINOIS - CHICAGO CIRCLE	D P TOWNSEND	LERC	D LITVIN	NAG 3 1992	216
46	UNIV OF ILLINOIS - CHICAGO CIRCLE	D SOCKOREZ	JSC	D B DUNCAN	NAG 9 764	216
46	UNIV OF ILLINOIS - CHICAGO CIRCLE	F MONTEGANI	LERC	C MEGARIDIS	NGT 3 52337	217
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46	UNIV OF ILLINOIS - CHICAGO CIRCLE	GLESANE	HQ	M Y CHOI	NGT 51688	217
46	UNIV OF ILLINOIS - CHICAGO CIRCLE	H D ROSS	LERC	M Y CHOI	NAG 3 1631	216
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46	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	A A WRAY	ARC	R D MOSER	NGT 2 52229	222
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46	UNIV OF MISSOURI-KANSAS CITY	L SHAW	LERC	G D GUTE	NGT 3 52303	338
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46	UNIV OF OKLAHOMA - NORMAN	H D ROSS	LERC	A K AGRAWAL	NAG 3 1594	438
46	UNIV OF PENNSYLVANIA	D K RUSSELL	HQ	V KUMAR	NGT 70359	459
46	UNIV OF PUERTO RICO - MAYAGUEZ	L G HORTA	LARC	L SUAREZ	NAG 1 1496	569

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46	VA POLYTECH INST & ST UNIV	D K RUSSELL	HQ	W NG	NGT 70395	542
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47	COLLEGE OF WILLIAM AND MARY	D M HEATH	LARC	D M MANOS	NAG 1 1814	520
47	COLORADO SCH OF MINES	E S NELSON	LERC	J J MOORE	NCC 3 289	127
47	COLORADO SCH OF MINES	S GOKOGLU	LERC	J J MOORE	NAG 3 1698	127
47	COLORADO SCH OF MINES	T K GLASGOW	LERC	D READY	NAG 3 1409	127
47	DUKE UNIV	E NELSON	LERC	R BEHRINGER	NAG 3 1917	402
47	FISK UNIV	J DOWNEY	MSFC	D O HENDERSON	NAG 8 1066	473
47	FLA INTERNATIONAL UNIV	K LAWLESS	MSFC	P L ROMINE	NAG 8 1296	166
47	FLORIDA A&M UNIV	B A BAUM	LARC	H GARMESTANI	NAG 1 1866	167
47	FLORIDA A&M UNIV	D M ROYSTER	LARC	P N KALU	NAG 1 1696	167
47	FLORIDA ATLANTIC UNIV	A CHAIT	LERC	C TSAI	NAG 3 1738	169
47	FLORIDA STATE UNIV	A CHAIT	LERC	J VINALS	NAG 3 1885	171
47	FLORIDA STATE UNIV	L JETER	MSFC	M BIRD	NAS 8 40632	173
47	FLORIDA STATE UNIV	T K GLASGOW	LERC	J VINALS	NAG 3 1284	171
47	GEORGIA INST OF TECH	A VARY	LERC	R A GERHARDT	NAG 3 1559	188
47	GEORGIA INST OF TECH	C R TALLEY	MSFC	A M GOKHALE	NAG 8 1245	189
47	GEORGIA INST OF TECH	E G WINTUCKY	LERC	D N HILL	NAG 3 1665	188
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47	GEORGIA INST OF TECH	F MONTEGANI	LERC	D N HILL	NGT 51192	192
47	GEORGIA INST OF TECH	M D BETHEA	LERC	A M GOKHALE	NAG 3 1651	188
47	GEORGIA INST OF TECH	R S PIASCIK	LARC	A SAXENA	NAG 1 1582	186
47	GEORGIA INST OF TECH	T L ST. CLAIR	LARC	W S JOHNSON	NAG 1 1890	187

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47	HENDRIX COLLEGE	W ST. CYR	SSC	R W DUNN	NAG13 40	42
47	JAMES MADISON UNIV	A TEATE	LARC	A A TEATE	NAG 1 1910	526
47	JOHNS HOPKINS UNIV	D U BAAKUNI	LERC	D EHRLICH	NAG 3 1964	251
47	KENT STATE UNIV	A F HEPP	LERC	C VARUS-ABURTO	NCC 3 457	422
47	LINCOLN UNIV - PA	A JOYCE	SSC	D ROYER	NAG13 47	447
47	LOUISIANA STATE UNIV - BATON ROUGE	N AVAILABLE	LERC	B Q LI	NCC 3 435	244
47	MASSACHUSETTS INST OF TECH	A CHAIT	LERC	A J PATERA	NCC 3 438	305
47	MASSACHUSETTS INST OF TECH	B CARPENTER	HQ	J SZEKELY	NGT 51069	306
47	MASSACHUSETTS INST OF TECH	D E BOWLES	LARC	H L MCMANUS	NAG 1 1463	291
47	MASSACHUSETTS INST OF TECH	K J BOWLES	LERC	H L MCMANUS	NAG 3 1893	294
47	MICHIGAN TECHNOLOGICAL UNIV	T GLASGOW	LERC	A HELLAWELL	NAG 3 1659	314
47	NORFOLK STATE UNIV	J O SIMPSON	LARC	H R RIES	NGT 1 52175	527
47	NORFOLK STATE UNIV	M A MEADOR	LERC	L MATTIX	NAG 3 1371	527
47	NORTH CAROLINA A&T STATE UNIV	B J JENSEN	LARC	D O DUNN	NAG 1 1874	405
47	NORTH CAROLINA A&T STATE UNIV	C C POE JR.	LARC	K N SHIVAKUMAR	NAG 1 1604	404
47	NORTH CAROLINA A&T STATE UNIV	I S RAJU	LARC	K N SHIVAKUMAR	NAG 1 1956	405
47	NORTH CAROLINA A&T STATE UNIV	R BHATT	LERC	J SANKAR	NAS 3 96055	406
47	NORTH CAROLINA A&T STATE UNIV	R V MINER	LERC	G J FILATOVS	NAG 3 1432	405
47	NORTH CAROLINA STATE UNIV	G B NORTHAM	LARC	E M AFIFY	NAG 1 1733	407
47	NORTH CAROLINA STATE UNIV	G B NORTHAM	LARC	L H LEE	NGT 1 52125	410
47	NORTH CAROLINA STATE UNIV	G B NORTHAM	LARC	W L ROBERTS	NCC 1 244	409
47	NORTH DAKOTA STATE UNIV	A CHAIT	LERC	D A KURTZE	NAG 3 1603	412
47	NORTH DAKOTA STATE UNIV	A S MCGEE	HQ	P BOUDJOUK	NAGW 4629	412
47	NORTH DAKOTA STATE UNIV	F SIX	MSFC	P HAMMOND	NAG 8 1007	412
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47	NORTHWESTERN UNIV	W P WINFREE	LARC	J D ACHENBACH	NAG 1 1813	206
47	OHIO STATE UNIV	A CHAIT	LERC	P K GUPTA	NAG 3 1602	424
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47	OHIO STATE UNIV	T K GLASGOW	LERC	D G STROUD	NAG 3 1437	423
47	OHIO STATE UNIV	T K GLASGOW	LERC	P K DUTTA	NAG 3 1416	423
47	OHIO STATE UNIV	T K GLASGOW	LERC	STROUD	NCC 3 555	428
47	OLD DOMINION UNIV	N J JOHNSTON	LARC	J M MARCHELLO	NCC 1 227	530
47	OLD DOMINION UNIV	R A OUTLAW	LERC	R L ASH	NAG 1 1140	527
47	PENN STATE UNIV	B A LERCH	LERC	C J LISSENDEN	NCC 3 481	456
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47	PENN STATE UNIV	R L DEWITT	LERC	R M GERMAN	NAG 3 1287	448
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47	RENSSELAER POLYTECH INST	F MONTEGANI	LERC	M E GLICKSMAN	NGT 3 52310	392
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47	RENSSELAER POLYTECH INST	T D RODGERS	LERC	M B KOSS	NAG 3 2062	390
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47	SAN JOSE STATE UNIV	D B LEISER	ARC	G SELVADURAY	NAG 2 848	59
47	SAN JOSE STATE UNIV	W C LOMAX	ARC	G SELVADURAY	NAG 2 966	59
47	SOUTH DAKOTA SCH OF MINES & TECH	F MONTEGANI	LERC	J KELLER	NGT 3 52312	472
47	STANFORD UNIV	S SHARMA	ARC	M CAPPELLI	NCC 2 5205	70
47	STATE UNIV OF NY COL - ONEONTA	R G CLINTN, JR.	MSFC	K MAHANTA	NAG 8 1299	398
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47	TENNESSEE STATE UNIV	F E ROBERTS	MSFC	D K CHAUDHUN	NAG 8 1018	474
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47	TUSKEGEE UNIV	R ROGOSKI	LARC	M A SEIF	NAG 1 1865	5
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47	UNIV OF ALABAMA - UNIV	P A CURRERERI	MSFC	D M STEFANESCU	NCC 8 57	17
47	UNIV OF ARIZONA	A CHAIT	LERC	D R POIRIER	NAG 3 1446	28
47	UNIV OF ARIZONA	P H RHODES	MSFC	J C BAYGENTS	NAG 8 948	33
47	UNIV OF CALIFORNIA - BERKELEY	D CAGLIOSTRO	ARC	D W FUERSTENAU	NCC 2 5161	84
47	UNIV OF CALIFORNIA - DAVIS	T L PANONTIN	ARC	M R HILL	NCC 2 5214	90
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47	UNIV OF CALIFORNIA - LOS ANGELES	R D NORBE	LERC	A J ARDELL	NAG 3 1325	95
47	UNIV OF CALIFORNIA - LOS ANGELES	R ROGERS	LERC	S PUTTERMAN	NAG 3 1889	95
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47	UNIV OF CALIFORNIA - SANTA BARBARA	T L PANONTI	ARC	M R SHANABARGER	NCC 2 63	119
47	UNIV OF COLORADO - BOULDER	B GUYNES	MSFC	S STURE	NAS 8 38779	147
47	UNIV OF COLORADO - BOULDER	J P DOWNEY	MSFC	W B KRANTZ	NAG 8 1062	141
47	UNIV OF CONNECTICUT	J C NEWMAN	LARC	A J MCEVILY	NAG 1 1382	153
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47	UNIV OF NORTH CAROLINA-GREENSBORO	R BHATT	LERC	J SANKAR	NAS 3 27767	411
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47	UNIV OF SOUTH CAROLINA-COLUMBIA	C E HARRIS	LARC	M SUTTON	NAG 1 1489	470
47	UNIV OF SOUTH CAROLINA-COLUMBIA	R S PIASCIK	LARC	M SUTTON	NAG 1 1664	470
47	UNIV OF SOUTHERN CALIFORNIA	A CHAIT	LERC	E MEIBURG	NAG 3 1619	123
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47	UNIV OF TENNESSEE - KNOXVILLE	R D NOEBE	LERC	B F OLIVER	NAG 3 1697	475
47	UNIV OF TENNESSEE - KNOXVILLE	W S JOHNSON	LARC	M S MADHUKAR	NAG 1 1566	475
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47	UNIV OF TEXAS - EL PASO	E B CLARK	LERC	V P SINGH	NAG 3 1820	511
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47	UNIV OF VIRGINIA	R V MINER	LERC	M J PINDERA	NAG 3 1997	534
47	UNIV OF VIRGINIA	S L VENNERI	HQ	H N WADLEY	NAGW 1692	536
47	UNIV OF VIRGINIA	T T BALES	LARC	L P TROEGER	NGT 1 52117	538
47	UNIV OF WISCONSIN – MADISON	B S SINGH	LERC	S KOU	NAG 3 1909	559
47	UNIV OF WISCONSIN – MADISON	G A LESANE	HQ	D R SMITH	NGT 51364	566
47	UNIV OF WISCONSIN – MADISON	G LESANE	HQ	J H BOOSKE	NGT 51263	566
47	UNIV OF WISCONSIN – MADISON	G LESANE	HQ	R COOPER	NGT 51669	566
47	UNIV OF WISCONSIN – MILWAUKEE	H DE GROH	LERC	S V GARIMELLA	NCC 3 557	567
47	UNIV OF WYOMING	I S RAJU	LARC	A W PECK	NAG 1 1773	567
47	UNIV OF WYOMING	N J JOHNSTON	LARC	D F ADAMS	NAG 1 1294	567
47	VA POLYTECH INST & ST UNIV	C MOORE	HQ	H N WADLEY	NAG 1 1953	540
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47	VA POLYTECH INST & ST UNIV	H B DEXTTER	LARC	A C LOOS	NAG 1 1881	540
47	VANDERBILT UNIV	A DE LOACH	MSFC	R J BAYVZICK	NCC 8 91	478
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47	WASHINGTON STATE UNIV	S G BAILEY	LERC	L OLSEN	NAG 3 1881	554
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49	BRIGHAM YOUNG UNIV	B W WEBBON	ARC	P CARTER	NAG 2 883	513
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49	CALIFORNIA STATE UNIV – LOS ANGELES	B WHITE	HQ	M RANDLE	NGT 90051	55
49	CALIFORNIA STATE UNIV – LOS ANGELES	B WHITE	HQ	R LANDIS	NGT 90064	55
49	CALIFORNIA STATE UNIV – LOS ANGELES	M MATEU	GSFC	R B LANDIS	NGT 5 90063	55
49	CALIFORNIA STATE UNIV – NORTHRIDGE	M S MARGOLIS	HQ	C MORNING	NGT 90032	56
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49	CLEMSON UNIV – CLEMSON	W CAMPBELL	GSFC	D LIGON	NAG 5 6210	468
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49	D–Q UNIV	R LAWRENCE	GSFC	S TIWARI	NGT 5 90040	57
49	DARTMOUTH COLLEGE	M M MELLOTT	HQ	C G FESEN	NAGW 2656	349
49	DUKE UNIV	A S MCGEE	HQ	F H COCKS	NAGW 4299	402
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49	JACKSON STATE UNIV	B L WHITE	HQ	A K MOHAMED	NAGW 4092	333
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49	UNIV OF SOUTH FLORIDA	B L WHITE	HQ	J A O	NGT 90060	184
49	UNIV OF SOUTH FLORIDA	B WHITE	HQ	R E HERRING	NAGW 3050	183
49	UNIV OF SOUTHERN CALIFORNIA	E A PALMER	ARC	D L DAMOS	NCC 2 910	126
49	UNIV OF SOUTHERN MISSISSIPPI	A T JOYCE	SSC	C WYLDMEN	NGT13 52704	335
49	UNIV OF TEXAS - ARLINGTON	S WANDER	HQ	D R WILSON	NAGW 3714	500
49	UNIV OF TEXAS - AUSTIN	H LUM	ARC	L JOHNSON	NAG 2 6002	501
49	UNIV OF TEXAS - AUSTIN	M EWERT	JSC	D C VLIET	NAG 9 891	505
49	UNIV OF TEXAS - AUSTIN	N TENGLER	JSC	R R CRAIG	NAG 9 829	505
49	UNIV OF TEXAS - AUSTIN	R LAWRENCE	GSFC	R H BISHOP	NGT 5 90017	509
49	UNIV OF TEXAS - AUSTIN	T PENDLETON	JSC	D KUIPERS	NAG 9 898	505
49	UNIV OF TEXAS - EL PASO	STOUTSENBERGER	GSFC	R ARROWOOD	NGT 5 70007	512
49	UNIV OF TEXAS AT SAN ANTONIO	B WHITE	HQ	L VALERDE	NGT 90047	513
49	UNIV OF TEXAS AT SAN ANTONIO	B WHITE	HQ	M BERRIOZABAL	NAGW 3573	513
49	UNIV OF TOLEDO	A P KURKOU	LERC	S K MITAL	NAG 3 1264	434
49	UNIV OF TOLEDO	P MURTHY	LERC	T G KEITH	NCC 3 524	436
49	UNIV OF TULSA	J FISHER	ARC	M ABRAHAM	NCC 2 5151	439
49	UNIV OF TURABO	M MATEU	GSFC	B A MARRERO	NGT 5 90064	571
49	UNIV OF TURABO	MTORRES	HQ	B MARREO	NGT 90157	571
49	UNIV OF UTAH	G MEYER	ARC	S DEVASIA	NAG 2 1042	514
49	UNIV OF VIRGINIA	A NOVOTNY	HQ	J J DORNING	NGT 51221	538
49	UNIV OF VIRGINIA	E J PRIOR	LARC	E A THORNTON	NGT 51114	538
49	UNIV OF VIRGINIA	H A ROELANT	LARC	J B DUGAN	NCC 1 210	537
49	UNIV OF VIRGINIA	S L VENNERI	HQ	A K NOOR	NCCW 11	537

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49	UTAH STATE UNIV	A S MCGEE	HQ	F REDD	NAGW 4298	517
49	VA POLYTECH INST & ST UNIV	A S MCGEE	HQ	A JAKUBOWSKI	NAGW 4241	541
49	VA POLYTECH INST & ST UNIV	M STOUTSENBERGER	GSFC	D NG	NGT 5 70008	543
49	VA POLYTECH INST & ST UNIV	R S PIASCLK	LARC	J A NEWMAN	NGT 1 52174	543
49	VANDERBILT UNIV	H WAITES	MSFC	M N SAMUELSON	NGT 8 52828	479
49	WASHINGTON STATE UNIV	K R SACKSTEDER	LERC	R A ALTENKIRCH	NAS 3 23901	555
49	WASHINGTON STATE UNIV	K R SACKSTEDER	LERC	R A ALTENKIRCH	NCC 3 564	555
49	WASHINGTON UNIV	S A GOKOGLE	LERC	R L AXELBAUM	NAG 3 1910	338
49	WAYNE STATE UNIV	G MEYER	ARC	F LIN	NAG 2 1043	327
49	WEST VIRGINIA UNIV	A S MCGEE	HQ	R L MCCONNELL	NAGW 4286	556
49	WEST VIRGINIA UNIV	D S OZBURN	ARC	J R CALLAHAN	NCC 2 979	556
49	WEST VIRGINIA UNIV	J F MEYERS	LARC	J M KUHLMAN	NAG 1 1892	555
49	WOFFORD COLLEGE	J F DOWDY	MSFC	D M SCOTT	NAG 8 1310	470
49	XAVIER UNIV – LOUISIANA	L RANDOLPH	GSFC	G BAKER	NGT 5 90084	249
49	XAVIER UNIV – LOUISIANA	L WARREN	HQ	G W BAKER	NGT 90004	248
51	ALABAMA A&M UNIV	R C RUFF	MSFC	R B LAL	NAS 8 36634	2
51	ALABAMA A&M UNIV	R L SAUER	JSC	M G TADROS	NAG 9 758	2
51	ARIZONA STATE UNIV	C R TALLEY	MSFC	J ALLEN	NAG 8 1353	23
51	ARIZONA STATE UNIV	J D RUMMEL	HQ	R E BLANKENSHIP	NAGW 1395	24
51	ARIZONA STATE UNIV	M A MEYER	GSFC	D HOLLOWAY	NAG 5 4892	23
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51	ARIZONA STATE UNIV	M MEYER	GSFC	D CRONIN	NAG 5 4131	23
51	BAYLOR COLLEGE OF MED	C F SAWIN	JSC	B R ALFORD	NCC 9 58	480
51	BAYLOR COLLEGE OF MED	D FEEDBACK	JSC	A LEBLANC	NAG 9 754	479
51	BAYLOR COLLEGE OF MED	DF SAWIN	JSC	B R ALFORD	NAG 9 911	480
51	BOWDOIN COLLEGE	T W HALSTEAD	HQ	C R PHILLIPS	NAGW 1719	249
51	BROOKLYN COLLEGE	D A REISS–BUBENHEIM	ARC	M P SCHREIBMAN	NCC 2 963	369
51	CALIFORNIA INST OF TECH	M A MEYER	GSFC	D YUNG	NAG 5 4022	46
51	CALIFORNIA INST OF TECH	M A MEYER	GSFC	P A BLAKE	NAG 5 3733	45
51	COLORADO STATE UNIV	W SCHIMMERLING	HQ	C A WALDREN	NAGW 4924	129
51	COLUMBIA UNIV	C M WINGET	ARC	D J WOLGEMUTH	NAG 2 987	372
51	CORNELL UNIV	M MEYER	GSFC	D A USHER	NAG 5 4975	383
51	CORNELL UNIV	R WHITE	HQ	R W ZOBEL	NGT 51075	386
51	CORNELL UNIV	S GONDA	JSC	W M SALTZMAN	NAG 9 654	384
51	CORNELL UNIV	T W HALSTEAD	HQ	R WAYNE	NAGW 3341	385
51	CREIGHTON UNIV	C M WINGET	ARC	B FRITZSCH	NAG 2 1003	345
51	CREIGHTON UNIV	D A REISS–BUBENHEIM	ARC	B FRITZSCH	NCC 2 861	345
51	DUKE UNIV	C M WINGET	ARC	P ANDERSON	NAG 2 1002	401
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51	GEORGIA STATE UNIV	P X CALLAHAN	ARC	D M RUMBAUGH	NAG 2 438	194
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51	HARVARD UNIV	D K RUSSELL	HQ	L BUELL	NGT 90254	290
51	HARVARD UNIV	M A MEYER	GSFC	D D HOLLAND	NAG 5 4174	287
51	HOWARD UNIV	L PUTCHA	JSC	M W COOMES	NAG 9 977	162
51	HUNTER COLLEGE	M A SHEPANEK	HQ	T G BROMAGE	NAGW 4817	388
51	INDIANA UNIV	E M HOLTON	ARC	W E ROBERTS	NCC 2 594	223
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51	KANSAS STATE UNIV	R J WHITE	HQ	B S SPOONER	NAGW 2328	238
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51	MEDICAL COLLEGE OF WISCONSIN	W E HINDS	ARC	D A RILEY	NAG 2 956	558
51	MIAMI UNIV	C M WINGET	ARC	J Z KISS	NAG 2 1017	423
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51	MILES COLLEGE	M A JONES	HQ	C JONES	NAGW 4323	4
51	MONTANA STATE UNIV	C M WINGET	ARC	B H PYLE	NAG 2 1018	343
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51	MOREHOUSE SCH MED	D R LISKOWSKY	ARC	W W SULLIVAN	NCC 2 936	195
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51	NY UNIV	W E HINDS	ARC	K D WALTON	NAG 2 951	389
51	NORTH CAROLINA STATE UNIV	R WHITE	HQ	E DAVIS	NAGW 4984	408
51	NORTHWESTERN UNIV	T W HALSTEAD	HQ	R S DECKER	NAGW 3615	209
51	OHIO STATE UNIV	C M WINGET	ARC	F D SACK	NAG 2 1023	423
51	OHIO STATE UNIV	G LESANE	HQ	F SACK	NGT 51281	428
51	OHIO STATE UNIV	W KNOLL	KSC	F SACK	NAG10 179	427
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51	OREGON STATE UNIV	T W HALSTEAD	HQ	T LOMAX	NAGW 3716	441
51	PENN STATE UNIV	C M WINGET	ARC	W C HYMER	NCC 2 370	455
51	PENN STATE UNIV	M MEYER	GSFC	D F KASTING	NAG 5 3654	451
51	PENN STATE UNIV	R C DARTY	MSFC	W C HYMER	NAG 8 953	453
51	PENN STATE UNIV	T W HALSTEAD	HQ	D J COSGROVE	NAGW 3333	454
51	PENN STATE UNIV	V SCHNEIDER	GSFC	D J COSGROVE	NAG 5 3707	451
51	PENN STATE UNIV	W M KNOTT	KSC	D J COSGROVE	NAG10 205	455
51	PURDUE UNIV	C M WINGET	ARC	P Y HESTER	NAG 2 1001	225
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51	ROWAN COLLEGE OF NEW JERSEY	F SIX	MSFC	V BROWN	NAG 8 995	361
51	RUTGERS STATE UNIV OF NJ NEW BRUNS	R WHITE	HQ	H W JAMES	NAGW 5003	363
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51	SANTA CLARA UNIV	J D RUMMEL	HQ	H P KLEIN	NAGW 2378	62
51	SHENANDOAH UNIV	E PRITCHARD	JSC	S LEMOINE	NGT 9 13	532
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51	STATE UNIV OF NY - BUFFALO	F M SULZMAN	HQ	L E FARHI	NAGW 3937	395
51	STATE UNIV OF NY - BUFFALO	T W HALSTEAD	HQ	M A BISSON	NAGW 3630	395
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51	STATE UNIV OF NY - STONY BROOK	M MEYER	GSFC	D A SCHOONEN	NAG 5 4894	396
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51	TEXAS CHRISTIAN UNIV	C L TALLEY	MSFC	J G ALBRIGHT	NAG 8 1356	492
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51	TULANE UNIV	N PELLIS	JSC	D HAMMOND	NAG 9 811	247
51	TULANE UNIV	N PELLIS	JSC	K O	NAG 9 826	247
51	UNIV HOUSTON	C M WINGET	ARC	A C VAILAS	NAG 2 1089	494
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51	UNIV	D L PIERSON	JSC	G M WEINSTOCK	NAG 9 903	498
51	UNIV	F M SULZMAN	HQ	F W BOOTH	NAGW 3908	498
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51	UNIV OF ALABAMA – BIRMINGHAM	R C DARTY	MSFC	L DELUCAS	NAS 8 36611	7
51	UNIV OF ALABAMA – HUNTSVILLE	C R TALLEY	MSFC	F ROSENBERGER	NAG 8 1354	12
51	UNIV OF ARIZONA	M A MEYER	GSFC	D V CHYBA	NAG 5 6184	33
51	UNIV OF ARIZONA	R S BAIRD	JSC	K R SRIDHAR	NAG 9 923	34
51	UNIV OF ARIZONA	W E HINDS	ARC	B L MCNAUGHTON	NAG 2 949	27
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51	UNIV OF CALIFORNIA – BERKELEY	G LESANE	HQ	L FELDMAN	NGT 51280	85
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51	UNIV OF CALIFORNIA – DAVIS	C M WINGET	ARC	J VERNIKOS	NAG 2 840	88
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51	UNIV OF CALIFORNIA – DAVIS	W E HINDS	ARC	B CHAPMAN	NAG 2 1019	88
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51	UNIV OF CALIFORNIA – SAN DIEGO	C M WINGET	ARC	S BODINE–FOWLER	NAG 2 714	106
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51	UNIV OF CALIFORNIA – SAN DIEGO	M MEYER	GSFC	D ARRHENIUS	NAG 5 4563	109
51	UNIV OF CALIFORNIA – SAN DIEGO	M MEYER	HQ	P L BADA	NAG 5 4546	109
51	UNIV OF CALIFORNIA – SAN FRANCISCO	C M WINGET	ARC	M H FULFORD	NAG 2 1086	115
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51	UNIV OF CALIFORNIA – SAN FRANCISCO	N PELLIS	JSC	B BHATNAGAR	NAG 9 812	115
51	UNIV OF CALIFORNIA – SAN FRANCISCO	S B ARNAUD	ARC	E M HOLTON	NCC 2 589	115
51	UNIV OF CALIFORNIA – SAN FRANCISCO	V ELLERBE	JSC	C CANN	NAS 9 18769	115
51	UNIV OF CALIFORNIA – SANTA CRUZ	C E WADE	ARC	C L ORTIZ	NGT 2 52230	122
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51	UNIV OF CALIFORNIA – SANTA CRUZ	M M MEYER	HQ	D W DEAMER	NAGW 4235	121
51	UNIV OF CALIFORNIA – SANTA CRUZ	M MEYER	GSFC	D DEAMER	NAG 5 4665	121
51	UNIV OF CINCINNATI	G LESANE	HQ	S A KHAN	NGT 51367	433
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51	UNIV OF ILLINOIS AT URBANA–CHAMPAIGN	S M HING	ARC	P C HARRISON	NAG 2 863	217
51	UNIV OF KANSAS MEDICAL CTR	C M WINGET	ARC	J S TASH	NAG 2 1016	240
51	UNIV OF LOUISVILLE	T W HALSTEAD	HQ	G SONNENFELD	NAGW 4031	242
51	UNIV OF MARYLAND – COLLEGE PARK	J K ALEXANDER	HQ	J A REGGIA	NAGW 2805	271
51	UNIV OF MARYLAND – COLLEGE PARK	M L CORCORAN	ARC	A N POPPER	NAG 2 787	262
51	UNIV OF MASSACHUSETTS – AMHERST	J D RUMMELT	HQ	L MARGOLIS	NAGW 1989	310
51	UNIV OF MASSACHUSETTS – AMHERST	M MEYER	GSFC	D M IRVINE	NAG 5 3653	309
51	UNIV OF MICHIGAN – ANN ARBOR	D A REISS–BUBENHEIM	ARC	K I CLARK	NCC 2 856	324
51	UNIV OF MICHIGAN – ANN ARBOR	M A MEYER	GSFC	D G WALKER	NAG 5 4770	320
51	UNIV OF MISSISSIPPI – MEDICAL CTR	D A REISS–BUBENHEIM	ARC	R B JOHNSON	NCC 2 863	334
51	UNIV OF MISSOURI – COLUMBIA	C M WINGET	ARC	T A JONES	NAG 2 1032	336
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51	UNIV OF NEVADA – RENO	M MEYER	GSFC	D A WHARTON	NAG 5 4471	348
51	UNIV OF NORTH CAROLINA – CHAPEL HILL	F M SULZMAN	HQ	M YAMAUCHI	NAGW 3946	411
51	UNIV OF NORTH TEXAS	M MEYER	GSFC	D S BRATERMAN	NAG 5 4891	499
51	UNIV OF NORTH TEXAS	M MEYER	HQ	P S BRATEMAN	NAGW 4620	499
51	UNIV OF NORTHERN IOWA	F SULZMAN	HQ	D WIENS	NAGW 4992	237
51	UNIV OF PITTSBURGH	J VILLARREAL	JSC	T H MONK	NAS 9 18404	461
51	UNIV OF PUERTO RICO–RIO PIEDRAS	F SIX	MSFC	R LUGO–ESCHENWALD	NAG 8 260	571
51	UNIV OF PUGET SOUND	M MEYER	HQ	B PIERSON	NAGW 5090	544
51	UNIV OF SAN FRANCISCO	C M WINGET	ARC	E V BENTON	NCC 2 893	123
51	UNIV OF SOUTH FLORIDA	C M WINGET	ARC	T SHIMIZU	NAG 2 1000	183
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51	UNIV OF SOUTH FLORIDA	W M KNOTT	KSC	K A FLANNING	NAG10 130	183
51	UNIV OF SOUTHERN CALIFORNIA	M J LEON	ARC	W L WONG	NAG 2 6014	123
51	UNIV OF SOUTHWESTERN LOUISIANA	W M KNOTT	KSC	K H HASENSTEIN	NAG10 190	248
51	UNIV OF TENNESSEE – KNOXVILLE	D A HOLLAND	HQ	R CONGES	NAG10 221	476
51	UNIV OF TENNESSEE – KNOXVILLE	G BADHWAR	JSC	B V CONGER	NAGW 3141	476
51	UNIV OF TENNESSEE – KNOXVILLE	G BADHWAR	JSC	D W TOWNSEND	NAG 9 858	476
51	UNIV OF TENNESSEE – MEMPHIS	W E HINDS	ARC	A T ICHIKI	NAG 2 494	477
51	UNIV OF TEXAS – AUSTIN	G LESANE	HQ	B G SANDERS	NGT 51365	508
51	UNIV OF TEXAS – AUSTIN	K DEMEL	JSC	R E BARR	NAG 9 805	505
51	UNIV OF TEXAS – AUSTIN	T W HALSTEAD	HQ	S J ROUX	NAGW 1519	506
51	UNIV OF TEXAS – AUSTIN	W M KNOTT	KSC	R M BROWN JR	NAG10 143	507
51	UNIV OF TEXAS – AUSTIN	W M KNOTT	KSC	S J POUX	NAG10 202	507
51	UNIV OF TEXAS AT SAN ANTONIO	D K RUSSELL	HQ	L WILLIAMS	NGT 90261	513
51	UNIV OF TEXAS AT SAN ANTONIO	R A GRYMES	ARC	A O MARTINEZ	NAG 2 819	513
51	UNIV OF TEXAS AT SAN ANTONIO	R LAWRENCE	GSFC	L R WILLIAMS	NGT 5 90012	513
51	UNIV OF VERMONT	T W HALSTEAD	HQ	P M LINTILHAC	NAGW 3604	518
51	UNIV OF WASHINGTON	G LESANE	HQ	S S CARLSON	NGT 51279	553
51	UNIV OF WASHINGTON	T W HALSTEAD	HQ	R E CLELAND	NAGW 3755	550
51	UNIV OF WISCONSIN – MADISON	C M WINGET	ARC	B C WENTWORTH	NAG 2 1009	558
51	UNIV OF WISCONSIN – MADISON	F SULZMAN	HQ	S I SUKHAREV	NAGW 4934	564
51	UNIV OF WISCONSIN – MADISON	M M AVERNER	HQ	T W TIBBITTS	NAGW 4022	564
51	UNIV OF WISCONSIN – MADISON	R BALLARD	ARC	A C VAILAS	NAG 2 769	558
51	UNIV OF WISCONSIN – MADISON	T W HALSTEAD	HQ	E SCHULTZ	NAGW 3987	564
51	UNIV OF WISCONSIN – MADISON	T W HALSTEAD	HQ	P MASSON	NAGW 4053	564
51	UNIV OF WISCONSIN – MADISON	V CEVENINI	HQ	J G BOLLINGER	NAGW 975	563
51	UNIV OF WISCONSIN – MADISON	V THORNE	HQ	P MASSON	NAGW 4952	564
51	UNIV OF WISCONSIN – MADISON	W KNOTT	KSC	H SCHATTEN	NAG10 183	565
51	UNIV OF WISCONSIN – MADISON	W M KNOTT	KSC	P WILLIAMS	NAG10 206	565
51	UNIV OF WISCONSIN – MILWAUKEE	D HOLLAND	HQ	P I LELKES	NGT 51265	567
51	UNIV OF WISCONSIN – MILWAUKEE	G SPAULDING	JSC	P I LELKES	NAG 9 651	567
51	UNIV OF WISCONSIN – MILWAUKEE	J D RUMMEL	HQ	K NEALSON	NAGW 3270	567
51	UNIV OF WISCONSIN – MILWAUKEE	M MEYER	GSFC	D H NEALSON	NAG 5 4463	567
51	UTAH STATE UNIV	A A GONZALES	ARC	G BINGHAM	NAS 2 13659	517
51	UTAH STATE UNIV	R WHEELER	KSC	D L BISHOP	NGT10 52609	518
51	VIRGINIA COMMONWEALTH UNIV	R LAWRENCE	GSFC	J BERGLUND	NGT 5 90029	543

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51	WASHINGTON STATE UNIV	W M KNOTT	KSC	N G LEWIS	NAG10 164	554
51	WASHINGTON UNIV	G SPAULDING	GSFC	D W SCHARP	NAG 9 653	340
51	WASHINGTON UNIV	M A MEYER	GSFC	D L SHOCK	NAG 5 4002	339
51	WASHINGTON UNIV	T W HALSTEAD	HQ	B G PICKARD	NAGW 3046	341
51	WASHINGTON UNIV	W E HINDS	ARC	S M HIGHSTEIN	NAG 2 945	338
51	WEST VIRGINIA UNIV	A NURRIDDIN	GSFC	W T PETERJOHN	NGT 5 50009	556
51	WINSTON-SALEM STATE UNIV	R LAWRENCE	GSFC	W B ATKINSON	NGT 5 90010	412
51	YALE UNIV	C L TALLEY	MSFC	R E APFEL	NAG 8 1351	155
51	YALE UNIV	W E HINDS	ARC	H S KESHISHIAN	NAG 2 948	154
51	YESHIVA UNIV	M D ROSS	ARC	R S ZUKIN	NAG 2 1033	401
54	ALABAMA A&M UNIV	R WALKER	MSFC	C LOWE	NAG 8 1039	1
54	CTR FOR ENVIR & ESTU STUDIES U OF MD	G A SOFFEN	GSFC	S W SEAGLE	NAG 5 2042	250
54	CLARK ATLANTA UNIV	A CHOW	MSFC	T BAI	NAG 8 1140	185
54	CLARK ATLANTA UNIV	K POIMBOEUF	KSC	S RODRIGUEZ-EATON	NAG10 170	185
54	COLORADO STATE UNIV	A NURRIDDIN	GSFC	G STEPHENS	NGT 5 50007	130
54	DILLARD UNIV	F SIX	MSFC	G ROCHON	NAG 8 1010	242
54	DUKE UNIV	M POWELL	JSC	W GERTH	NCC 9 42	402
54	FISK UNIV	G S LEE	ARC	M GUNASEKARAN	NAG 2 6015	472
54	FLORIDA A&M UNIV	A JOYCE	SSC	Y P HSIEH	NAG13 41	168
54	FLORIDA INST OF TECH	W M KNOTT	KSC	C R BOSTATER	NAG10 151	170
54	GEORGE WASHINGTON UNIV	P O'NEILL	GSFC	N CHAUHAN	NAG 5 2325	158
54	LOUISIANA STATE UNIV - BATON ROUGE	D G SICKOREZ	JSC	D F DAY	NGT 9 10	244
54	NORTHWEST INDIAN COLLEGE	F SIX	MSFC	D BURNS	NAG 8 1000	544
54	OREGON STATE UNIV	D PETERSON	ARC	B YODER	NCC 2 5222	442
54	PENN STATE UNIV	C E MCCASKEY	KSC	W E ANDERSON	NAG10 192	455
54	PRAIRIE VIEW A&M UNIV	J CONNOLLY	JSC	R RADHARKRISHMAN	NAG 9 778	481
54	SIERRA COLLEGE	A HUSAIN	NMO	M DOBECK	NAG 7 1	63
54	SOUTHEAST MISSOURI STATE UNIV	F SIX	MSFC	D PROBET	NAG 8 993	336
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54	TEXAS SOUTHERN UNIV	D HENNINGER	JSC	R F WILSON	NAG 9 765	493
54	THE UNIV OF CENTRAL FLORIDA	M COLLINS	KSC	D REINHART	NAG10 198	174
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54	UNIV OF MASSACHUSETTS	W SCHWARTZ	JSC	W SCHWARTZ	NAG 8 1358	308
54	UNIV OF PUERTO RICO-MED SCIENCES	A JOYCE	SSC	J NORAT	NAG13 29	569
54	UNIV OF TEXAS MED BRAN - GALVESTON	D L PIERSON	JSC	M R MCGINNIS	NAG 9 901	496
54	UNIV	J D RUMMEL	HQ	R A WHARTON	NAGW 1947	347
54	UNIV OF ALABAMA - HUNTSVILLE	C M WINGET	ARC	M L LEWIS	NAG 2 985	8
54	UNIV OF ARIZONA	D L PETERSON	ARC	B D GANAPOL	NCC 2 5239	39
54	UNIV OF CALIFORNIA - BERKELEY	D J DES MARAIS	ARC	N R PACE	NGT 2 52233	86
54	UNIV OF CALIFORNIA - BERKELEY	D L PETERSON	ARC	R C SPEAR	NCC 2 5102	84
54	UNIV OF CALIFORNIA - BERKELEY	D L PETERSON	ARC	R C SPEAR	NCC 2 5183	84
54	UNIV OF CALIFORNIA - BERKELEY	G LESANE	HQ	D MURTHY	NGT 51691	86
54	UNIV OF CALIFORNIA - DAVIS	D L PETERSON	ARC	R K WASHINO	NCC 2 860	89
54	UNIV OF CALIFORNIA - DAVIS	V C VANDERBILT	ARC	S USTIN	NCC 2 5134	90
54	UNIV OF CALIFORNIA - SANTA CRUZ	J S THEON	HQ	D VALLIS	NAGW 4213	121
54	UNIV OF CHARLESTON -WEST VIRGINIA	A JOYCE	SSC	D COOMBS	NGT13 52708	555
54	UNIV OF FLORIDA	D WICKLAND	HQ	D S HOLLING	NAGW 4860	178
54	UNIV OF NEW HAMPSHIRE - DURHAM	R H THOMAS	GSFC	D SKOLE	NAG 5 4177	352
54	UNIV OF NEW HAMPSHIRE - DURHAM	R H THOMAS	HQ	D SKOLE	NAGW 4920	355
54	UNIV OF NORTHERN COLORADO	F SIX	MSFC	C JACKSON	NAG 8 227	153
54	UNIV OF TEXAS - AUSTIN	J D RUMMEL	HQ	E R PIANKA	NAGW 2815	506
54	UNIV OF VERMONT	R H THOMAS	GSFC	D MORRISSEY	NAG 5 4138	518
54	UNIV OF VERMONT	R H THOMAS	HQ	L MORRISSEY	NAGW 4948	518
54	VANDERBILT UNIV	M A SHEPANEK	HQ	M GOLDFARB	NAGW 4723	478
54	VANDERBILT UNIV	V THORNE	GSFC	M GOLDFARE	NAG 5 3341	477
54	VIRGINIA COMMONWEALTH UNIV	C M BUNTIN	JSC	H B CHERMSIDE	NAS 9 19541	543
55	ALABAMA A&M UNIV	M H KLISS	ARC	C A BEYL	NAG 2 1160	1
55	COLORADO STATE UNIV	D G SICKOREZ	JSC	M B STONE	NGT 9 11	130
55	COLORADO STATE UNIV	D K HALL	GSFC	G E LISTON	NAG 5 4760	128
55	CORNELL UNIV	D G SICKOREZ	JSC	J B HUNTER	NGT 9 17	388
55	CORNELL UNIV	D G SICKOREZ	JSC	R W LANGHANS	NGT 9 12	388
55	CORNELL UNIV	G SOFFEN	GSFC	W BRUTSAERT	NGT 51211	386
55	CORNELL UNIV	J SAGER	KSC	C F JOHNSON	NGT10 52607	388
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55	LOUISIANA STATE UNIV – BATON ROUGE	B MARTIN	KSC	M E MUSGRAVE	NGT 51097	244
55	LOUISIANA STATE UNIV – BATON ROUGE	D J BARTA	JSC	D MUSGRAVE	NAG 9 860	243
55	LOUISIANA STATE UNIV – BATON ROUGE	W M KNOTT	KSC	M E MUSGRAVE	NAG10 139	244
55	MIAMI UNIV	G LE SANE	HQ	J KISS	NGT 51685	423
55	NY UNIV	M M AVERNER	HQ	T VOLK	NAGW 4125	389
55	SAN JOSE STATE UNIV	D L BUBENHEIM	ARC	W SAVAGE	NCC 2 5179	62
55	STATE UNIV OF NY – STONY BROOK	W M KNOTT	KSC	A D DRIKORIAN	NAG10 146	398
55	TEXAS A&M UNIV	K HENDERSON	JSC	D LANGHANS	NAG 9 894	490
55	TEXAS A&M UNIV	S GOLDSTEIN	JSC	L R HOSSNER	NGT 51229	491
55	TEXAS SOUTHERN UNIV	D BARTA	JSC	O A JEJELOWO	NAG 9 712	492
55	UNIV OF CALIFORNIA – DAVIS	R C HARRISS	HQ	P J COLEMAN	NAGW 5080	89
55	UNIV OF FLORIDA	W M KNOTT	KSC	R J FERL	NAG10 145	178
55	UNIV OF FLORIDA	W MARTIN	KSC	R L DARNELL	NGT 51218	179
55	UNIV OF MASSACHUSETTS – AMHERST	G LESANE	HQ	K A COREY	NGT 51282	311
55	UNIV OF TENNESSEE – KNOXVILLE	B ST. CYR	SSC	R SCHULTZ	NAG13 55	476
55	UTAH STATE UNIV	G BINGHAM	ARC	G BINGHAM	NCC 2 5039	517
55	UTAH STATE UNIV	G C JAHNS	ARC	F B SALISBURY	NCC 2 831	517
56	BAYLOR COLLEGE OF MED	A L PLAZA	JSC	A D LEBLANC	NAS 9 18952	480
56	BAYLOR COLLEGE OF MED	C M BUNTIN	JSC	A LEBLANC	NAS 9 19404	480
56	BAYLOR COLLEGE OF MED	C R TALLEY	MSFC	B YOFE	NAG 8 1383	479
56	BAYLOR COLLEGE OF MED	D FEEBACK	JSC	H LANE	NCC 9 29	480
56	BAYLOR COLLEGE OF MED	D MORRISON	JSC	M Z ATASSI	NAS 9 18065	480
56	BAYLOR COLLEGE OF MED	J B HENDERSON	JSC	M E DEBAKEY	NCC 9 23	480
56	BAYLOR COLLEGE OF MED	L C SHACKETON	MSFC	A D SHACKELTON	NCC 9 61	480
56	BAYLOR COLLEGE OF MED	V SCHNEIDER	HQ	C P ALFREY	NAGW 4993	480
56	BAYLOR COLLEGE OF MED	V THORNE	HQ	A LEBLANC	NAGW 4437	480
56	BOSTON UNIV	V SCHNEIDER	HQ	M F HOLICK	NAGW 4936	283
56	COLORADO STATE UNIV	F M SULZMAN	HQ	J T LETT	NAGW 3957	129
56	COLORADO STATE UNIV	G LESANE	HQ	R W GOTSHALL	NGT 51419	130
56	DREXEL UNIV	J S LING	LERC	S DUBIN VMD	NAG 3 1715	446
56	DUKE UNIV	M POWELL	JSC	R VANN	NAG 9 939	402
56	IOWA STATE UNIV	N R PELLIS	JSC	C A HEATH	NAG 9 827	232
56	JOHNS HOPKINS UNIV	F M SULZMAN	HQ	L SCHULTHEIS	NAGW 4198	257
56	LOUISIANA STATE UNIV – BATON ROUGE	H LANE	JSC	G A BRAY	NAG 9 714	243
56	MARQUETTE UNIV	C M WINGET	ARC	R H FITTS	NAG 2 636	557
56	MASSACHUSETTS INST OF TECH	D L TOMKO	ARC	C WALL	NGT 2 52206	307
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56	MASSACHUSETTS INST OF TECH	S SAWYER	SSC	C M OMAN	NAS 9 19536	305
56	MEDICAL UNIV OF SOUTH CAROLINA	C R TALLEY	MSFC	A J SMOLKA	NAG 8 1385	469
56	MEHARRY MEDICAL COLLEGE	D K RUSSELL	HQ	S E ADUNYAH	NGT 70388	473
56	MEHARRY MEDICAL COLLEGE	J ATKINSON	JSC	J E WILSON	NAG 9 934	473
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56	MOREHOUSE COLLEGE	K KRISHEN	JSC	K DUTT	NAG 9 964	195
56	MOREHOUSE SCH MED	B L WHITE	HQ	M L THERRY-PALMER	NCCW 83	195
56	MOREHOUSE SCH MED	J D ATKINSON	JSC	W W SULLIVAN	NAG 9 932	195
56	MOREHOUSE SCH MED	K KRISHEN	JSC	R SRIDARAN	NAG 9 963	195
56	MOREHOUSE SCH MED	R LAWRENCE	GSFC	G L SANFORD	NAG 9 644	195
56	MT SINAI SCH OF MED OF THE CUNY	W E HINDS	ARC	G R HOLSTEIN	NAG 2 968	389
56	PENN STATE UNIV –HERSHEY MED	D K RUSSELL	HQ	W SEVERS	NGT 70327	448
56	PENN STATE UNIV –HERSHEY MED	V THORNE	HQ	L I SINOWAY	NAGW 4400	448
56	PENN STATE UNIV	V SCHNEIDER	HQ	J A PAWELCZYK	NAGW 4839	454
56	PRINCETON UNIV	R WHITE	HQ	C GROSS	NGT 51140	360
56	RICE UNIV	D G SICKOREZ	JSC	A G MIKOS	NGT 9 9	486
56	SAINT LOUIS UNIV	R WHITE	HQ	N C PARTRIDGE	NGT 51145	336
56	SAN JOSE STATE UNIV	J W HINES	ARC	D SINGH	NCC 2 5173	62
56	SAN JOSE STATE UNIV	V SCHNEIDER	HQ	R A FOX	NAGW 4480	60
56	SONOMA STATE UNIV	J SWANK	GSFC	W L BODA	NCC 2 930	63
56	STANFORD UNIV	R T WHALEN	ARC	S A NAPEL	NCC 2 5186	70
56	STANFORD UNIV	R WHALEN	ARC	S A NAPEL	NCC 2 5088	69
56	STATE UNIV OF NY – BUFFALO	C M WINGET	ARC	J A KRASNEY	NAG 2 947	394
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56	TEXAS A&M UNIV	T YANG	JSC	D BRABY	NAG 9 886	489
56	TEXAS SOUTHERN UNIV	J D ATKINSON	JSC	D FADULA	NAG 9 862	493
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56	UNIV OF MASSACHUSETTS	N PELLIS	JSC	P J QUESENBERRY	NAG 9 819	308
56	UNIV OF MED AND DENTISTRY	K NEWKIRK	JSC	P STEIN	NAS 9 17276	363
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56	UNIV OF TEXAS MED BRAN - GALVESTON	R BILLICA	JSC	W A WASSON	NAG 9 859	496
56	UNIV OF TEXAS	C M SMITH	JSC	C G BLOMQVIST	NAS 9 19540	498
56	UNIV OF TEXAS	R J WHITE	HQ	C G BLOMQVIST	NAGW 3582	498
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56	UNIV	J VILLARREAL	JSC	P T STEIN	NAS 9 19409	364
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56	UNIV OF CALIFORNIA - LOS ANGELES	M MOORE	ARC	V R EDGERTON	NGT 51175	104
56	UNIV OF CALIFORNIA - SAN DIEGO	C M WINGET	ARC	A R HARGENS	NCC 2 852	113
56	UNIV OF CALIFORNIA - SAN DIEGO	C M WINGET	ARC	A R HARGENS	NCC 2 978	113
56	UNIV OF CALIFORNIA - SAN DIEGO	S G SAWYER	JSC	J B WEST	NAS 9 19434	113
56	UNIV OF CALIFORNIA - SAN FRANCISCO	L TAGGART	JSC	N E LANE	NAG 9 689	115
56	UNIV OF CALIFORNIA - SAN FRANCISCO	V SCHNEIDER	HQ	R K GIBBUS	NAGW 4625	115
56	UNIV OF FLORIDA	D A TIPTON	KSC	A H NEIMS	NAS10 96004	179
56	UNIV OF FLORIDA	I D LONG	KSC	R J MELKER	NAS10 11880	179
56	UNIV OF FLORIDA	R J WHITE	HQ	R R GRAMS	NAGW 3570	177
56	UNIV OF GEORGIA	S GOLDSTEIN	KSC	G A DUDLEY	NGT 51199	197
56	UNIV OF IOWA	N PELLIS	JSC	D W MURHAMMER	NAG 9 824	235
56	UNIV OF KENTUCKY	F M SULZMAN	HQ	C F KNAPP	NAGW 3786	241
56	UNIV OF LOUISVILLE	V THORNE	HQ	J M STEFFEN	NAGW 5042	242
56	UNIV OF MARYLAND - COLLEGE PARK	C DOARN	GSFC	D S LIU	NAG 5 3532	266
56	UNIV OF MARYLAND BALTIMORE COUNTY	F M SULZMAN	HQ	E K BALCER-KUBICZEK	NAGW 4392	278
56	UNIV OF MICHIGAN - ANN ARBOR	F SULZMAN	HQ	G L AMIDON	NAGW 4981	323
56	UNIV OF MISSOURI - COLUMBIA	R JUDAY	JSC	J KNAPP	NAG 9 711	337
56	UNIV OF NORTH TEXAS HLTH SCI	F SULZMAN	HQ	M L SMITH	NAGW 5038	500
56	UNIV OF PENNSYLVANIA	R J WHITE	HQ	C J LAMBERTSEN	NAGW 3628	458
56	UNIV OF PITTSBURGH	C DOARN	GSFC	R LAPORTE	NAG 5 6274	460
56	UNIV OF PITTSBURGH	J VILLAREAL	JSC	T H MONK	NAS 9 19407	461
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56	UNIV OF VIRGINIA	N PELLIS	JSC	L K CHUNG	NAG 9 823	536
56	VANDERBILT UNIV	F M SULZMAN	HQ	D ROBERTSON	NAGW 3873	478
56	VANDERBILT UNIV	F M SULZMAN	HQ	I BIAGGIONI	NAGW 3854	478
56	VANDERBILT UNIV	R H OTT	HQ	T G WANG	NAGW 1707	478
56	VANDERBILT UNIV	S SAWYER	JSC	D ROBERTSON	NAS 9 19196	478
56	VIRGINIA COMMONWEALTH UNIV	A LEE	JSC	D ECKBURG	NAS 9 19539	543
59	ALABAMA A&M UNIV	A J HATCH	ARC	P G KALE	NAG 2 1130	1
59	ARIZONA STATE UNIV	D G SICKCOREZ	JSC	R D SEIDLER	NGT 9 21	26
59	BAYLOR COLLEGE OF MED	B CARPENTER	GSFC	D YOFFE	NAG 5 3712	479
59	BAYLOR COLLEGE OF MED	B CARPENTER	HQ	B YOFFE	NAGW 4805	480
59	BEMIDJI STATE UNIV	V THORPE	HQ	A L LINDGREN	NAGW 4199	327
59	BOSTON COLLEGE	L KARR	MSFC	D KIRSCHNER	NAG 8 1304	279
59	BOSTON UNIV	V SCHNEIDER	GSFC	M F HOLICK	NAG 5 3991	281
59	BRANDEIS UNIV	F SULZMAN	HQ	J R LACKNER	NAGW 4374	284
59	BRANDEIS UNIV	F SULZMAN	HQ	J R LACKNER	NAGW 4375	284
59	BRANDEIS UNIV	V SCHNEIDER	GSFC	J LACKNER	NAG 5 4836	284
59	BRANDEIS UNIV	V SCHNEIDER	GSFC	J LACKNER	NAG 5 6056	284
59	BRANDEIS UNIV	V SCHNEIDER	HQ	J R LACKNER	NAGW 4733	284
59	CASE WESTERN RESERVE UNIV	F SULZMAN	HQ	M L SMITH	NAGW 4398	415
59	COLORADO STATE UNIV	R A GRYMES	ARC	G R COULTER	NCC 2 907	129
59	COLORADO STATE UNIV	S SCHIMMERLING	GSFC	C A WALDREN	NAG 5 3768	128
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59	COLUMBIA UNIV	T K SCOTT	HQ	W J WOLGEMUTH	NAGW 4462	377
59	COLUMBIA UNIV	V SCHNEIDER	GSFC	D WOGLEMUTH	NAG 5 3953	375
59	COPPIN STATE COLLEGE	J F DOWDY	MSFC	M E OWENS	NAG 8 1315	250
59	CORNELL UNIV	J SAGER	KSC	L ALBRIGHT	NGT10 52600	388
59	CORNELL UNIV	M AVERNER	GSFC	J B HUNTER	NAG 5 4222	382

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59	DUKE UNIV	F SULZMAN	HQ	R D VANN	NAGW 4417	402
59	DUKE UNIV	V SCHNEIDER	GSFC	R D VANN	NAG 5 4491	402
59	EAST TENNESSEE STATE UNIV	C TALLEY	MSFC	L WILSON	NAG 8 1375	472
59	ESTRN VA MED SCH-ESTRN VA MED AUTH	W M KNOTT	KSC	D SPANGENBERG	NAG10 178	522
59	FLORIDA A&M UNIV	J MALONE	HQ	C B GOODMAN	NGT10 40900	169
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59	GEORGE WASHINGTON UNIV	V SCHNEIDER	GSFC	S HUANG	NAG 5 5160	158
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59	GEORGETOWN UNIV	F M SULZMAN	HQ	M MOSCOVITCH	NAGW 4395	160
59	GEORGETOWN UNIV	F M SULZMAN	HQ	T J JORGENSEN	NAGW 4396	160
59	GEORGETOWN UNIV	W SCHIMMERLING	GSFC	D MOSCOVITCH	NAG 5 6343	160
59	HUNTER COLLEGE	M A SHEPANEK	GSFC	T G BROMAGE	NAG 5 3706	388
59	INDIANA UNIV	V SCHNEIDER	GSFC	D DUNCAN	NAG 5 4917	223
59	INDIANA UNIV - BLOOMINGTON	V THORNE	HQ	R L DUNCAN	NAGW 4638	224
59	IOWA STATE UNIV	L P CHAMBERS	GSFC	M POTTER	NAG 5 6353	232
59	KANSAS STATE UNIV	T K SCOTT	HQ	G W CONRAD	NAGW 4491	238
59	KANSAS STATE UNIV	T SCOTT	GSFC	G CONRAD	NAG 5 3885	237
59	KANSAS STATE UNIV	W M KNOTT	KSC	J A GUIKEMA	NAG10 142	238
59	LOMA LINDA UNIV	R LAWRENCE	GSFC	D NELSON	NCC 5 236	57
59	LOUISIANA STATE UNIV - BATON ROUGE	V S SCHNEIDER	GSFC	M A MUSGRAVE	NAG 5 3756	243
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59	MARQUETTE UNIV	V SCHNEIDER	GSFC	R FITTS	NAG 5 6058	557
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59	MASSACHUSETTS INST OF TECH	R J WHITE	HQ	R J COHEN	NAGW 3927	303
59	MASSACHUSETTS INST OF TECH	V SCHNEIDER	GSFC	R COHEN	NAG 5 4989	299
59	MICHIGAN TECHNOLOGICAL UNIV	J GRAF	JSC	V H SELZER	NAG 9 918	314
59	MISSISSIPPI STATE UNIV	D CARTER	MSFC	W WILSON	NAG 8 965	334
59	MONTANA STATE UNIV	G FOGLEMAN	GSFC	G A MCFETERS	NAG 5 3750	343
59	MONTANA STATE UNIV	L TAFF	HQ	G A MCFETERS	NAGW 5001	343
59	MOREHOUSE SCH MED	J ATKINS	JSC	J LIVERPOOL	NAG 9 954	195
59	MOREHOUSE SCH MED	J D ATKINSON	JSC	W W SULLIVAN	NAG 9 871	195
59	MT SINAI SCH OF MED OF THE CUNY	V SCHNEIDER	GSFC	H KAUFMANN	NAG 5 6276	389
59	NATIONAL HISPANIC UNIV	B LUNA	ARC	M C VIRAMONTES	NAG 2 6013	57
59	NAVAJO COMM COLLEGE	F SULZMAN	HQ	A KUSLIKIS	NAGW 4236	26
59	NAVAJO COMM COLLEGE	R A GRYMES	ARC	D BASHAM	NCC 2 964	26
59	NEW MEXICO HIGHLANDS UNIV	J SAGER	KSC	B TAYLOR	NAG10 161	364
59	NEW MEXICO STATE UNIV - LAS CRUCES	G C FOGLEMAN	HQ	G A EICEMAN	NAGW 4558	367
59	NEW MEXICO STATE UNIV - LAS CRUCES	G FOGLEMAN	GSFC	D EICEMAN	NAG 5 6193	366
59	NY UNIV	M AVERNER	GSFC	T VOLK	NAG 5 4457	389
59	NORTH CAROLINA STATE UNIV	L CHAMBERS	GSFC	E DAVIES	NAG 5 3743	408
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59	OHIO STATE UNIV	G FOGLEMAN	GSFC	D WOODS	NAG 5 6344	426
59	OHIO STATE UNIV	G FOGLEMAN	HQ	M D PORTER	NAGW 4951	427
59	OHIO STATE UNIV	J M ORASANU	ARC	P J SMITH	NCC 2 830	428
59	OHIO STATE UNIV	T K SCOTT	HQ	F D SACK	NAGW 4472	427
59	OHIO STATE UNIV	T K SCOTT	HQ	M L EVANS	NAGW 4522	427
59	OHIO STATE UNIV	T SCOTT	GSFC	F SACK	NAG 5 3774	425
59	OHIO UNIV	J M ORASANU	ARC	C E MCCOY	NCC 2 827	429
59	PENN STATE UNIV	F SULZMAN	HQ	P R CAVANAGH	NAGW 4421	454
59	PENN STATE UNIV	K E NEWKIRK	JSC	D A PAWELCZYK	NAS 9 19573	455
59	PENN STATE UNIV	M AVERNER	GSFC	R CYR	NAG 5 4840	452
59	PENN STATE UNIV	T SCOTT	GSFC	N V FEDOROFF	NAG 5 3970	451
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59	PRAIRIE VIEW A&M UNIV	R E ECKEL KAMP	JSC	J LI	NAG 9 777	481
59	PRINCETON UNIV	S SAWYER	GSFC	T SHORES	NAS 9 19324	360
59	PRINCETON UNIV	S SAWYER	JSC	T J SHORS	NAS 9 19519	360
59	PURDUE UNIV	R J WHITE	HQ	C A MITCHELL	NAGW 2329	227
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59	SAN DIEGO STATE UNIV	T K SCOTT	HQ	D L RAYLE	NAGW 4435	58
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59	SAN JOSE STATE UNIV	B LUNA	ARC	A RODRIGUEA	NCC 2 960	61
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59	STATE UNIV OF NY – STONY BROOK	T HALSTEAD	HQ	A D KRIKORIAN	NAGW 1529	397
59	STATE UNIV OF NY – STONY BROOK	V SCHNEIDER	GSFC	C T RUBIN	NAG 5 3950	396
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59	TEXAS A&M UNIV	J MAIDA	JSC	D KERK	NAG 9 889	489
59	TEXAS A&M UNIV	M A SHEPANEK	GSFC	M D DELP	NAG 5 3754	488
59	THE UNIV OF CENTRAL FLORIDA	J SAGER	KSC	R W JOHNSON	NAG10 147	173
59	TULANE UNIV	T W HALSTEAD	HQ	C D FERMIN	NAGW 1516	247
59	TUSKEGEE UNIV	R WHEELER	KSC	D MARTLEY	NAG10 209	6
59	UNIV OF MARYLAND AT BALTIMORE	L CHAMBERS	HQ	B RABIN	NAG 5 6093	260
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59	UNIV OF MED AND DENTISTRY	J VILLARREAL	JSC	T P STEIN	NAS 9 18775	363
59	UNIV OF MINN – MINNEAPOLIS–ST PAUL	J D COLLIER	GSFC	V S KOSCHEVEV	NAG 5 3533	329
59	UNIV OF MINN – MINNEAPOLIS–ST PAUL	J STOKLOSA	HQ	V S KOSCHEYEV	NAGW 4794	331
59	UNIV OF TEXAS MED BRAN – GALVESTON	T SCOTT	HQ	A PERACHIO	NAG 5 6009	496
59	UNIV OF TEXAS	A M LEE	JSC	C G BLOMQVIST	NAS 9 19429	498
59	UNIV OF TEXAS	V SCHNEIDER	GSFC	B LEVINE	NAG 5 4846	498
59	UNIV	A PLAZA	JSC	G WEINSTOCK	NAS 9 19439	499
59	UNIV	M AVERNER	GSFC	E DURBAN	NAG 5 4710	498
59	UNIV	T SCOTT	GSFC	D ROWE	NAG 5 6316	153
59	UNIV	V SCHNEIDER	GSFC	B BUTLER	NAG 5 6176	498
59	UNIV	V SCHNEIDER	HQ	B D BUTLER	NAGW 4479	499
59	UNIV OF ALABAMA – BIRMINGHAM	D K COLLINS	MSFC	L J DELUCAS	NAS 8 40189	7
59	UNIV OF ALABAMA – BIRMINGHAM	G FOGLEMAN	GSFC	D CASSELL	NAG 5 6287	6
59	UNIV OF ALABAMA – BIRMINGHAM	J ROGERS	GSFC	L J DELUCAS	NAG 8 1146	6
59	UNIV OF ALABAMA – BIRMINGHAM	M NALL	MSFC	L DELUCUS	NCC 8 126	7
59	UNIV OF ALABAMA – HUNTSVILLE	L JETER	MSFC	F ROSENBERGER	NCC 8 99	14
59	UNIV OF ARIZONA	M AVERNER	GSFC	J L CUELLO	NAG 5 4456	32
59	UNIV OF ARIZONA	R WHITE	HQ	C M TIPTON	NGT 51092	40
59	UNIV OF CALIFORNIA – BERKELEY	T K SCOTT	GSFC	D FELDMAN	NAG 5 6347	79
59	UNIV OF CALIFORNIA – BERKELEY	T K SCOTT	HQ	L J FELDMAN	NAGW 4473	81
59	UNIV OF CALIFORNIA – DAVIS	F SULZMAN	HQ	C A FULLER	NAGW 4390	89
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59	UNIV OF CALIFORNIA – DAVIS	V SCHNEIDER	HQ	D M MURAKAMI	NAGW 4552	89
59	UNIV OF CALIFORNIA – IRVINE	F M SULZMAN	GSFC	G ADAMS	NAG 5 3741	93
59	UNIV OF CALIFORNIA – IRVINE	F SULZMAN	HQ	R E PURDY	NAGW 4415	93
59	UNIV OF CALIFORNIA – IRVINE	T K SCOTT	HQ	G R ADAMS	NAGW 4471	93
59	UNIV OF CALIFORNIA – IRVINE	V SCHNEIDER	GSFC	R PURDY	NAG 5 4040	93
59	UNIV OF CALIFORNIA – LOS ANGELES	A L LEE	JSC	C MARKHAM	NAS 9 19400	104
59	UNIV OF CALIFORNIA – LOS ANGELES	A R HARGENS	ARC	P S COWINGS	NCC 2 804	104
59	UNIV OF CALIFORNIA – LOS ANGELES	T SCOTT	GSFC	A D GRINNELL	NAG 5 3964	97
59	UNIV OF CALIFORNIA – LOS ANGELES	V SCHNEIDER	GSFC	J TIDBALL	NAG 5 4837	99
59	UNIV OF CALIFORNIA – RIVERSIDE	R KING	MSFC	A MCPHERSON	NCC 8 80	105
59	UNIV OF CALIFORNIA – SAN DIEGO	F M SULZMAN	GSFC	K PRISK	NAG 5 3742	108
59	UNIV OF CALIFORNIA – SAN DIEGO	F SULZMAN	HQ	G K PRISK	NAGW 4372	112
59	UNIV OF CALIFORNIA – SAN DIEGO	M AVERNER	GSFC	J A FRANGOS	NAG 5 4648	109
59	UNIV OF CALIFORNIA – SAN DIEGO	N PELLIS	JSC	J A FRANGO	NAG 9 837	111
59	UNIV OF CALIFORNIA – SAN DIEGO	R J WHITE	HQ	S L MILLER	NAGW 2881	111
59	UNIV OF CALIFORNIA – SAN DIEGO	S SAWYER	JSC	J B WEST	NAS 9 19209	113
59	UNIV OF CALIFORNIA – SAN DIEGO	V ELLERBE	JSC	J B WEST	NAS 9 18764	113
59	UNIV OF CALIFORNIA – SAN FRANCISCO	J VILLARREAL	JSC	D KANAS	NAS 9 19411	115
59	UNIV OF CALIFORNIA – SAN FRANCISCO	V THORNE	HQ	M BANDA	NAGW 4386	115

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59	UNIV OF FLORIDA	M AVERNER	HQ	R R NARAYANAN	NAGW 4363	178
59	UNIV OF HOUSTON – CLEAR LAKE	M POWELL	JSC	R S CHHIKARA	NAG 9 802	499
59	UNIV OF ILLINOIS – CHICAGO CIRCLE	T SCOTT	GSFC	A LYSAKOWSKI	NAG 5 4593	216
59	UNIV OF ILLINOIS AT URBANA–CHAMPAIGN	J R ROGERS	MSFC	C F ZOKOSKI	NAG 8 1376	220
59	UNIV OF IOWA	F SULZMAN	HQ	A K JOHNSON	NAGW 4358	236
59	UNIV OF IOWA	L CHAMBERS	GSFC	A JOHNSON	NAG 5 6171	235
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59	UNIV OF MARYLAND BALTIMORE COUNTY	F M SULZMAN	HQ	B M RABIN	NAGW 4394	279
59	UNIV OF MASSACHUSETTS	L KURR	MSFC	D KIRSCHINGER	NAG 8 1145	309
59	UNIV OF MICHIGAN – ANN ARBOR	G C FOGLEMAN	HQ	K NAJAFI	NAGW 4494	323
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59	UNIV OF MISSOURI – COLUMBIA	T SCOTT	GSFC	T A JONES	NAG 5 4607	336
59	UNIV OF MISSOURI – COLUMBIA	V SCHNEIDER	HQ	E M HASSER	NAGW 4991	337
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59	UNIV OF NORTH TEXAS HLTH SCI	V SCHNEIDER	GSFC	M SMITH	NAG 5 3744	500
59	UNIV OF NORTH TEXAS HLTH SCI	V SCHNEIDER	GSFC	P B RAVEN	NAG 5 4668	500
59	UNIV OF NORTH TEXAS	D K RUSSELL	HQ	P B RAVEN	NGT 70409	500
59	UNIV OF NORTHERN IOWA	T SCOTT	GSFC	D J WIENS	NAG 5 3751	237
59	UNIV OF PENNSYLVANIA	F SULZMAN	HQ	C J LAMBERTSEN	NAGW 4359	459
59	UNIV OF PENNSYLVANIA	J ELLISON	GSFC	N I BADLER	NAG 5 3990	458
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59	UNIV OF PENNSYLVANIA	N PELLIS	JSC	P S AYYASWAMY	NAG 9 817	458
59	UNIV OF PENNSYLVANIA	R WHITE	GSFC	J LAMBERTSEN	NAG 5 4274	458
59	UNIV OF ROCHESTER	C TALLEY	MSFC	D WU	NAG 8 1382	400
59	UNIV OF ROCHESTER	R J WHITE	HQ	T W CLARKSON	NAGW 2356	400
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59	UNIV OF TENNESSEE – MEMPHIS	K NEWKIRK	JSC	A DUNLAP	NAS 9 19571	477
59	UNIV OF TEXAS – AUSTIN	J BLOOMBERG	JSC	L D ABRAHAM	NAG 9 804	505
59	UNIV OF TEXAS – AUSTIN	T SCOTT	GSFC	S J ROUX	NAG 5 3887	503
59	UNIV OF TEXAS – AUSTIN	V SCHNEIDER	HQ	R L HELMREICH	NAGW 4561	507
59	UNIV OF TEXAS AT SAN ANTONIO	W M KNOTT	KSC	M L WIEDERHOLD	NAG10 180	513
59	UNIV OF UTAH	J W FISHER	ARC	D R WESTENSKOW	NCC 2 890	515
59	UNIV OF UTAH	J W FISHER	ARC	J S LIGHTLY	NCC 2 851	515
59	UNIV OF UTAH	L CHAMBERS	GSFC	K SHARP	NAG 5 3784	515
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59	UNIV OF UTAH	R J WHITE	HQ	M T SHARP	NAGW 4338	515
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59	UTAH STATE UNIV	D J BARTA	JSC	F B SALISBRUY	NAG 9 907	516
59	UTAH STATE UNIV	M AVERNER	HQ	B G BUGBEE	NAGW 4365	517
59	UTAH STATE UNIV	V SCHNEIDER	GSFC	B BUGBEE	NAG 5 4496	516
59	VALDOSTA STATE UNIV	M AVERNER	GSFC	J NIENOW	NAG 5 4289	197
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59	YALE UNIV	V SCHNEIDER	GSFC	I M MILLS	NAG 5 3710	155
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62	THE UNIV OF CENTRAL FLORIDA	S BARTON	KSC	T KOTNOUR	NAG10 227	174
62	TUSKEGEE UNIV	D BARTA	JSC	W A HILL	NCC 9 51	6
62	UNIV OF CALIFORNIA – LOS ANGELES	E COX	DFRC	D GELMAN	NCC 2 826	104
62	UNIV OF CALIFORNIA – SAN DIEGO	K H OLSON	ARC	E L HUTCHINS	NAG 2 873	106
62	UNIV OF FLORIDA	G BUCKINGHAM	KSC	H CAMPINS	NAG10 200	178
62	UNIV OF FLORIDA	R MCKINNEY	KSC	H CAMPINS	NAG10 222	178
62	UNIV OF ILLINOIS – CHICAGO CIRCLE	K M CORKER	ARC	L J SKITKA	NCC 2 837	217
69	CALIFORNIA STATE UNIV	M M COHEN	ARC	A E STOPER	NCC 2 529	54
69	COLLEGE OF WILLIAM AND MARY	A T POPE	LARC	P L DERKS	NCC 1 160	521
69	GEORGIA INST OF TECH	R W REMINGTON	ARC	A R PRITCHETT	NAG 2 1146	187
69	ISRAEL INST OF TECH	R W REMINGTON	ARC	D GOPHER	NCC 2 995	572
69	MASSACHUSETTS INST OF TECH	K M CORKER	ARC	T B SHERIDAN	NAG 2 729	292
69	OLD DOMINION UNIV	A T POPE	LARC	F G FREEMAN	NCC 1 176	530
69	OLD DOMINION UNIV	A T POPE	LARC	L J PRINZEL	NGT 1 52123	531
69	OLD DOMINION UNIV	A T POPE	LARC	N WILSON	NGT 1 52118	531
69	OREGON GRADUATE INST OF SCI & TECH	A J AHUMADA	ARC	M PAVEL	NCC 2 811	439
69	OREGON STATE UNIV	K M CORKER	ARC	K H FUNK II	NAG 2 875	439
69	PENN STATE UNIV	A T POPE	LARC	M J RAY	NAG 1 1441	448
69	SAN JOSE STATE UNIV	R K DISMUKES	ARC	K JORDAN	NCC 2 327	60
69	SAN JOSE STATE UNIV	R K DISMUKES	ARC	K P JORDAN	NCC 2 798	61
69	STANFORD UNIV	S S DAVIS	ARC	B A WANDELL	NCC 2 307	68
69	THE CATHOLIC UNIV OF AMERICA	A T POPE	LARC	R PARASURAMAN	NAG 1 1296	163
69	THE CATHOLIC UNIV OF AMERICA	K M CORKER	ARC	R PARASURAMAN	NAG 2 1096	163
69	UNIV OF MARYLAND AT BALTIMORE	J M ORASANU	ARC	C F MACKENZIE	NCC 2 921	261
69	UNIV OF TEXAS–PAN AMERICAN	F MOUNT	JSC	V I ALVARADO	NAG 9 761	497
69	UNIV OF CALIFORNIA – BERKELEY	R B WELCH	ARC	L STARK	NCC 2 757	83
69	UNIV OF CALIFORNIA – SANTA CRUZ	R B WELCH	ARC	B BRIDGEMAN	NCC 2 928	122
69	UNIV OF CALIFORNIA – SANTA CRUZ	R B WELCH	ARC	B BRIDGEMAN	NCC 2 1003	122
69	UNIV OF COLORADO – BOULDER	W J STROUD	LARC	R SU	NAG 1 1862	131
69	UNIV OF ILLINOIS – CHICAGO CIRCLE	M M CONNORS	ARC	L J SKITKA	NCC 2 986	217
69	UNIV OF ILLINOIS AT URBANA–CHAMPAIGN	D C FOYLE	ARC	C D WICKENS	NAG 2 1120	218
69	UNIV OF MARYLAND – COLLEGE PARK	W F TRUSZKOWSKI	GSFC	K L NORMAN	NAG 5 3425	266
69	UNIV OF MIAMI	M R ROSEKIND	ARC	E L WIENER	NCC 2 843	182
69	UNIV OF UTAH	B KANKI	ARC	R DECKER	NCC 2 5007	515
69	UNIV OF VIRGINIA	M K KAISER	ARC	D R PROFFITT	NCC 2 925	537
69	UNIV OF WASHINGTON	R A HOFFMAN	GSFC	G K PARKS	NAG 5 3170	546
69	UNIV OF WISCONSIN – MADISON	E M WENZEL	ARC	F L WIGHTMAN	NCC 2 542	565
69	VA POLYTECH INST & ST UNIV	A T POPE	LARC	J L BURT	NGT 1 52107	542
71	UNIV OF CALIFORNIA – SAN DIEGO	E A PALMER	ARC	E HUTCHINS	NCC 2 996	113
72	CLEVELAND STATE UNIV	R C ALEXANDER	LERC	D T IANNONE	NAG 3 1705	419
73	AUBURN UNIV	D K RUSSELL	HQ	J R HANSEN	NGT 70398	4
73	NORTHEASTERN UNIV	R D LAUNIUS	HQ	W KAY	NASW 96014	308
73	THE AMERICAN UNIV	R D LAUNIUS	HQ	H MC CURDY	NASW 4798	162
73	UNIV OF NORTH DAKOTA	D L ROSS	JSC	G SEIELSTAD	NAG 9 945	413
76	COLUMBIA UNIV	B L WHITE	HQ	G J LOPAZ	NAGW 4219	377
76	GEORGE MASON UNIV	R H THOMAS	GSFC	B HAACK	NAG 5 4140	523
76	GEORGE MASON UNIV	R H THOMAS	HQ	B HAACK	NAGW 4970	523
76	NEW MEXICO HIGHLANDS UNIV	D RUSSELL	HQ	G SANCHEZ	NGT 90237	364
79	CASE WESTERN RESERVE UNIV	R CLAPPER	LERC	D KOLB	NCC 3 371	415
79	NEW MEXICO STATE UNIV – LAS CRUCES	D HOLLAND	HQ	V GHOO	NGT 70341	367
79	SOUTHWESTERN INDIAN POLYTECH INST	L M ARMENDARIZ	JSC	J A JOHNSON	NAG 9 937	368
79	TEXAS A&M UNIV–KINGSVILLE	L M ARMENDARIZ	JSC	J L KIMBALL	NAG 9 682	492
79	UNIV OF FLORIDA	N MAYNARD	HQ	S SANDERSON	NAGW 4640	178
79	UNIV OF NEW HAMPSHIRE – DURHAM	N MAYNARD	HQ	D SKOLE	NAGW 4695	355
79	UNIV OF TEXAS – AUSTIN	N MAYNARD	HQ	C WOOD	NAGW 4696	507
79	UNIV OF VIRGINIA	D K RUSSELL	HQ	D BALL	NGT 70365	538

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79	UTAH STATE UNIV	H CARR	SSC	D J BAKER	NCC13 18	517
99	ALABAMA A&M UNIV	S MILLER	MSFC	D CRAWFORD	NAG 8 1192	1
99	ALBANY STATE UNIV	E JOHNSON	KSC	G L BLACK	NAG10 233	184
99	ARIZONA STATE UNIV	A NURRIDDIN	HQ	R GREELEY	NGT 5 50077	25
99	ARIZONA STATE UNIV	G ASRAR	GSFC	R I DORN	NGT 5 30092	25
99	ARIZONA STATE UNIV	J BOYCE	GSFC	D GREELEY	NAG 5 4533	23
99	ARIZONA STATE UNIV	T KOSTLUK	HQ	P CHRISTENSEN	NAGW 4694	25
99	ARKANSAS TECH UNIV	J F DOWDY	MSFC	M CONNOR	NAG 8 1284	42
99	AUBURN UNIV	J E DUDENHOEFER	LERC	D W BRANDHORST	NCC 3 511	3
99	AUBURN UNIV	K FERNANDEZ	MSFC	H BURDG	NCC 8 69	3
99	AUBURN UNIV	L J SMITH	MSFC	J OWEN	NAS 8 39131	3
99	BENNETT COLLEGE	B L WHITE	HQ	J MCCRARY	NAGW 4531	401
99	BENNETT COLLEGE	B WHITE	HQ	D OLIVER	NAGW 4634	401
99	BENNETT COLLEGE	M MATEU	GSFC	D OLIVER	NAG 5 3483	401
99	BENNETT COLLEGE	M STOUTSENBERGER	GSFC	M COTTON	NAG 5 4980	401
99	BETHUNE - COOKMAN COLLEGE	F SIX	MSFC	S A RAHMANI	NAG 8 991	165
99	BETHUNE - COOKMAN COLLEGE	G BUCKINGHAM	KSC	A D TAYLOR	NAG10 220	165
99	BETHUNE - COOKMAN COLLEGE	R LAWRENCE	GSFC	T R NICHOLSON	NAG 5 3713	165
99	BOSTON COLLEGE	W J WAGNER	HQ	D F WEBB	NAGW 5052	280
99	BOSTON UNIV	B CAMPBELL	GSFC	D B KERR	NAG 5 6245	282
99	BOSTON UNIV	T KOSTIUK	HQ	R B KERR	NAGW 5103	283
99	BOWIE STATE UNIV	D K RUSSELL	HQ	N WAKIM	NCCW 79	250
99	BOWIE STATE UNIV	L RANDOLPH	GSFC	N WAKIM	NCC 5 232	250
99	BRANDEIS UNIV	A NURRIDDIN	HQ	J F WARDLE	NGT 5 50136	284
99	BROWN UNIV	A NURRIDDIN	HQ	SEIDEL	NGT 5 50108	465
99	BROWN UNIV	D E SMITH	GSFC	J W HEAD	NAG 5 6144	463
99	BROWN UNIV	E T SCHWARTZ	HQ	P H SCHULTZ	NGT 40034	465
99	BROWN UNIV	L KEFFER	GSFC	P H SCHULTZ	NGT 5 90014	466
99	CALIFORNIA INST OF TECH	A NURRIDDIN	HQ	B SOIFER	NGT 5 50045	53
99	CALIFORNIA INST OF TECH	A NURRIDDIN	HQ	M GURNIS	NGT 5 50144	53
99	CALIFORNIA INST OF TECH	A NURRIDDIN	HQ	P M URRAY	NGT 5 50125	53
99	CALIFORNIA INST OF TECH	C LEVIT	ARC	W A GODDARD	NAG 2 1131	43
99	CALIFORNIA INST OF TECH	C R TALLEY	MSFC	D F BRADY	NAG 8 1237	48
99	CALIFORNIA INST OF TECH	D E SMITH	GSFC	D O MUHLEMAN	NAG 5 4437	47
99	CALIFORNIA INST OF TECH	G ASRAR	GSFC	Y L YUNG	NGT 5 30096	52
99	CALIFORNIA INST OF TECH	G ASRAR	GSFC	Y YUNG	NGT 5 30068	52
99	CALIFORNIA INST OF TECH	S MCGEE	GSFC	A ALBEE	NGT 5 60003	53
99	CALIFORNIA POLYTECH STATE U-SAN LUIS	E L TU	ARC	R M CUMMINGS	NCC 2 924	54
99	CALIFORNIA STATE UNIV - CHICO	D CONRAD	LERC	J WRIGHT	NAS 3 26127	54
99	CALIFORNIA STATE UNIV - LOS ANGELES	B WHITE	HQ	W TAYLOR	NAGW 5144	55
99	CALIFORNIA STATE UNIV - LOS ANGELES	D K RUSSELL	HQ	T J ADENIKA-MORROW	NAGW 4225	55
99	CALIFORNIA STATE UNIV - LOS ANGELES	D STOUTSENBERGER	GSFC	W TAYLOR	NAG 5 6195	55
99	CALIFORNIA STATE UNIV - LOS ANGELES	M MATEU	GSFC	T ADENIKA-MORROW	NAG 5 3475	55
99	CALIFORNIA STATE UNIV - LOS ANGELES	R A HATHAWAY	LARC	D B LANDIS	NAG 1 1867	55
99	CALIFORNIA STATE UNIV - SACRAMENTO	DSIX	MSFC	B HAUSBACK	NAG 8 1220	56
99	CARNEGIE - MELLON UNIV	A NURRIDDIN	GSFC	A W MOORE	NGT 5 50060	446
99	CARNEGIE - MELLON UNIV	A NURRIDDIN	GSFC	J ANDERSON	NGT 5 50054	446
99	CARNEGIE - MELLON UNIV	A NURRIDDIN	HQ	M VELOSO	NGT 5 50076	446
99	CARNEGIE - MELLON UNIV	C HIX	JPL	A YU	NGT 51705	445
99	CARNEGIE - MELLON UNIV	D RUSSELL	HQ	R KAIL	NGT 90184	445
99	CARNEGIE - MELLON UNIV	D RUSSELL	HQ	R P KAIL	NGT 90267	445
99	CASE WESTERN RESERVE UNIV	A NURRIDDIN	HQ	D DITN	NGT 5 50064	418
99	CASE WESTERN RESERVE UNIV	D RUSSELL	HQ	M BOULDING	NGT 90177	417
99	CASE WESTERN RESERVE UNIV	F REEVES	MSFC	D MATTHIESEN	NAS 8 39722	415
99	CHRISTOPHER NEWPORT UNIV	D SIX	MSFC	D C ANYIWO	NAG 8 1292	519
99	CHRISTOPHER NEWPORT UNIV	S E MASSENBERG	LARC	R H PETERSON	NAG 1 1641	519
99	CITY UNIV OF NY HERBERT H	B WHITE	HQ	A L ROTHSTEIN	NAGW 5180	369
99	CITY UNIV OF NY HERBERT H	M STOUSENBERGER	HQ	A L ROTHSTEIN	NAG 5 6085	369
99	CITY UNIV OF NY CITY COLLEGE	D RUSSELL	HQ	J DAVIS	NAGW 4211	370
99	CITY UNIV OF NY CITY COLLEGE	F SIX	MSFC	G G GOSS	NAG 8 261	370
99	CITY UNIV OF NY CITY COLLEGE	M MATEU	GSFC	J BARBA	NAG 5 4911	370
99	CITY UNIV OF NY CITY COLLEGE	M MATEU	HQ	J BARBA	NAGW 4576	371
99	CITY UNIV OF NY CITY COLLEGE	R A HATHAWAY	LARC	J M SCHEIN	NAG 1 1913	370
99	CLARK ATLANTA UNIV	M S MARGOLIS	HQ	E A MINTZ	NAGW 2939	185
99	CLARK UNIV	A C JANETOS	HQ	R E KASPERSON	NGT 30344	284
99	CLARK UNIV	G ASRAR	GSFC	L LEWIS	NGT 5 30061	285

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99	CLARK UNIV	G ASRAR	GSFC	R E KASPERSON	NGT 5 30056	285
99	CLEMSON UNIV - CLEMSON	D K RUSSELL	HQ	S LASSER	NGT 90193	469
99	CLEMSON UNIV - CLEMSON	R J SILCOX	LARC	K A CUNEFARE	NGT 1 52179	469
99	CLEVELAND STATE UNIV	J E BOYD	LERC	P C CHARITY	NAG 3 1772	419
99	CLEVELAND STATE UNIV	M L BOROWSKI	LERC	P CHARITY	NAG 3 2075	419
99	COASTAL CAROLINA UNIV	J F DOWDY	MSFC	C GILLMAN	NAG 8 1260	469
99	COLLEGE OF CHARLESTON	E T SCHWARTZ	HQ	M COLGAN	NGT 5 40050	469
99	COLLEGE OF CHARLESTON	E T SCHWARTZ	HQ	M W COLGAN	NGT 40055	469
99	COLLEGE OF CHARLESTON	H BRINTON	HQ	C COOMBS	NAGW 4467	469
99	COLLEGE OF CHARLESTON	L OSTENDORF	GSFC	D COLGAN	NGT 5 40052	469
99	COLLEGE OF WILLIAM AND MARY	M CANRIGHT	LARC	W R ORTON	NGT 1 52121	521
99	COLLEGE OF WILLIAM AND MARY	R HATHAWAY	LARC	S FEYOCK	NGT 1 52152	521
99	COLLEGE OF WILLIAM AND MARY	T L ST. CLAIR	LARC	R A ORWOLL	NCC 1 150	521
99	COLORADO STATE UNIV	L CHAMBER	GSFC	R GOTSHALL	NGT 5 50069	130
99	COLUMBIA UNIV	A NURRIDDIN	HQ	C HAILEY	NGT 5 50158	379
99	COLUMBIA UNIV	A NURRIDDIN	HQ	S KAHN	NGT 5 50152	379
99	COLUMBIA UNIV	G ASRAR	GSFC	D MA	NAG 5 6372	376
99	COLUMBIA UNIV	G ASRAR	GSFC	J HANSEN	NGT 5 30048	379
99	COLUMBIA UNIV	G ASRAR	GSFC	M CANE	NGT 5 30123	379
99	COLUMBIA UNIV	G ASRAR	GSFC	T TAKAHASHI	NGT 5 30079	379
99	COLUMBIA UNIV	G ASRAR	HQ	R G FAIRBANKS	NGT 30162	378
99	COLUMBIA UNIV	M MATEU	GSFC	G LOPEZ	NAG 5 3482	374
99	CORNELL UNIV	A NURRIDDIN	GSFC	M SALTZMAN	NGT 5 50027	387
99	CORNELL UNIV	A NURRIDDIN	GSFC	S SALTZMAN	NGT 5 50036	387
99	CORNELL UNIV	D G SICKOREZ	JSC	R W LANGHANS	NGT 9 16	388
99	CORNELL UNIV	D K RUSSELL	HQ	G E REHKUGLER	NGT 90283	387
99	CORNELL UNIV	D K RUSSELL	HQ	W S GREEN	NGT 90239	387
99	CORNELL UNIV	G ASRAR	HQ	D TURCOTTE	NAGW 4702	386
99	CORNELL UNIV	L KEFFER	GSFC	Y TERZIAN	NGT 5 40019	387
99	CORNELL UNIV	L KEFFER	HQ	Y TERZLAN-TERZLAN	NGT 40012	386
99	CORNELL UNIV	R A SCHIFFER	HQ	M B PARLANGE	NGT 30283	386
99	CUYAHOGA COMM COLLEGE	J STORTO	LERC	J L JEFFERSON	NAG 3 1666	421
99	CUYAHOGA COMM COLLEGE	R L BONDURANT	LARC	T MC MANAMON	NAS 3 97169	422
99	CUYAHOGA COMM COLLEGE	R L BONDURANT	LERC	C JOHNSON	NAG 3 1711	421
99	CUYAHOGA COMM COLLEGE	R L BONDURANT	LERC	T MCMANAMON	NAG 3 2038	422
99	DANIEL WEBSTER COLLEGE	D SIX	MSFC	D LOPEZ	NAG 8 1209	348
99	DARTMOUTH COLLEGE	A NURRIDDIN	GSFC	M HUDSON	NGT 5 50059	350
99	DARTMOUTH COLLEGE	A NURRIDDIN	HQ	M HUDSON	NGT 5 50153	350
99	DARTMOUTH COLLEGE	J D BOHLIN	HQ	B O SONNERUP	NAGW 5137	350
99	DELTA COLLEGE	M PHELPS	HQ	H ARMAN	NAGW 3208	312
99	DRAKE UNIV	D SIX	MSFC	M D VALLE-BOHORQUEZ	NAG 8 1222	230
99	DRAKE UNIV	F SIX	MSFC	A MARSTON	NAG 8 264	230
99	DUKE UNIV	G ASRAR	GSFC	B STRAIN	NGT 5 30065	403
99	DUKE UNIV	G ASRAR	GSFC	W H SCHESINGER	NGT 5 30055	403
99	DUKE UNIV	G ASRAR	GSFC	W H SCHESINGER	NGT 5 30057	403
99	EAST TENNESSEE STATE UNIV	D SIX	MSFC	D J WILSON	NAG 8 1218	472
99	EASTERN MICHIGAN UNIV	D GALLAWAY	HQ	J BARNES	NAGW 3073	313
99	EDWARD WATERS COLLEGE	B WHITE	HQ	N SUNDURLINGAM	NAGW 3992	166
99	ELIZABETH CITY STATE UNIV	B WHITE	HQ	S S SACHDEV	NAGW 5172	403
99	FAYETTEVILLE STATE UNIV	B WHITE	HQ	D EDWARDS	NAGW 5166	404
99	FAYETTEVILLE STATE UNIV	M STOUTSENBERGER	GSFC	L EDWARDS	NAG 5 6095	404
99	FAYETTEVILLE STATE UNIV	S CANRIGHT	LARC	L EDWARD	NAG 1 1928	404
99	FLA INTERNATIONAL UNIV	A KAHN	HQ	M A EBADIAN	NCCW 44	167
99	FLA INTERNATIONAL UNIV	D K RUSSELL	HQ	J NAVLAKHA	NGT 90147	167
99	FLA INTERNATIONAL UNIV	D K RUSSELL	HQ	J NAVLAKHA	NGT 90148	167
99	FLA INTERNATIONAL UNIV	M J LEON	ARC	C LEVY	NCC 2 917	167
99	FLA INTERNATIONAL UNIV	M MATEU	GSFC	G ROIG	NAG 5 6324	166
99	FLA INTERNATIONAL UNIV	R A STACHNIK	HQ	J R WEBB	NAGW 5043	167
99	FLORIDA A&M UNIV	B L WHITE	GSFC	C B GOODMAN	NGT 5 90062	169
99	FLORIDA A&M UNIV	B L WHITE	HQ	S PANCHOLY	NAGW 4653	168
99	FLORIDA A&M UNIV	D K RUSSELL	HQ	E R TOSSIE	NGT 90181	168
99	FLORIDA A&M UNIV	D K RUSSELL	HQ	H L WILLIAMS	NGT 90107	168
99	FLORIDA A&M UNIV	J DIGGS	GSFC	F HUMPHRIES	NGT 5 90035	169
99	FLORIDA A&M UNIV	J E BOYD	LERC	F S HUMPHRIES	NAG 3 1759	168
99	FLORIDA A&M UNIV	R P WOODWARD	LERC	J A JOHNSON	NAGW 2930	168
99	FLORIDA ATLANTIC UNIV	V CEVENINI	HQ	W GLENN	NAGW 2778	169

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99	FLORIDA INST OF TECH	J D BOHLIN	GSFC	M MOLDWIN	NAGW 5153	170
99	FOOTHILL-DE ANZA COM COL SYS OFF	D L FENG-WOOD	ARC	M CONWAY	NGT 2 1002	57
99	FOOTHILL-DE ANZA COM COL SYS OFF	M E LOPEZ	ARC	M CONWAY	NGT 2 1001	57
99	FORT BELKNAP COLLEGE	M STOUTSENBERGER	GSFC	M TAYLOR	NAG 5 4148	343
99	GALLAUDET UNIV	D K RUSSELL	HQ	G MCGAUGHRAN	NGT 90182	158
99	GALLAUDET UNIV	D RUSSELL	HQ	G MCGAUGHRAN	NGT 90057	158
99	GALLAUDET UNIV	D RUSSELL	HQ	G MCGAUGHRAN	NGT 90075	158
99	GEORGE MASON UNIV	G ASRAR	GSFC	M KUFATOS	NGT 5 30101	523
99	GEORGE WASHINGTON UNIV	E T SCHWARTZ	HQ	J M LOGSDON	NGT 40056	159
99	GEORGE WASHINGTON UNIV	L KEFFER	GSFC	J M LOGSDON	NGT 5 40058	160
99	GEORGIA INST OF TECH	D K RUSSELL	HQ	L HOWARD	NGT 90200	192
99	GEORGIA INST OF TECH	D K RUSSELL	HQ	L HOWARD	NGT 90202	192
99	GEORGIA INST OF TECH	D K RUSSELL	HQ	L R HOWARD	NGT 90081	192
99	GEORGIA INST OF TECH	D K RUSSELL	HQ	L R HOWARD	NGT 90082	192
99	GEORGIA INST OF TECH	D K RUSSELL	HQ	M LIU	NGT 70383	192
99	GEORGIA INST OF TECH	D RUSSELL	HQ	L HOWARD	NGT 90201	192
99	GEORGIA INST OF TECH	E T SCHWARTZ	HQ	D A PETERS	NGT 40013	191
99	GEORGIA INST OF TECH	G ASRAR	GSFC	D SANDHOLM	NAG 5 6284	189
99	GEORGIA INST OF TECH	G ASRAR	GSFC	P H WINE	NGT 5 30099	193
99	GEORGIA INST OF TECH	G ASRAR	GSFC	W BRADSHA	NGT 5 30069	193
99	GEORGIA INST OF TECH	G L GILES	LARC	D P SCHRAGE	NGT 1 52156	193
99	GEORGIA INST OF TECH	J E GARDNER	LARC	B V GIBBENS	NGT 1 52162	193
99	GEORGIA INST OF TECH	L KEFFER	GSFC	E ARMANIOS	NGT 5 40023	193
99	GEORGIA INST OF TECH	P ROGERS	HQ	J P BRADLEY	NAGW 5176	190
99	GEORGIA INST OF TECH	R BAUER	LERC	D HOWARD	NAS 3 27361	190
99	GEORGIA SOUTHERN COLLEGE	T KOSTIUK	HQ	J R ANDERSON	NAGW 5106	194
99	GEORGIA SOUTHWESTERN COLLEGE	B CAMPBELL	GSFC	P W ANDERSON	NAG 5 4592	194
99	GUILFORD COLLEGE	F SIX	MSFC	C ALMY	NAG 8 223	404
99	HAMPTON UNIV	B L WHITE	HQ	B ADESANVA	NAGW 4756	525
99	HAMPTON UNIV	B WHITE	HQ	A OLADIPUPO	NAGW 5171	525
99	HAMPTON UNIV	N KHAZENIE	GSFC	D A TEMPLE	NAG 5 6296	525
99	HAMPTON UNIV	R A HATHAWAY	LARC	C W LOWE	NAG 1 1902	524
99	HAMPTON UNIV	R HATHAWAY	LARC	D SPENCER	NGT 1 52122	526
99	HAMPTON UNIV	R L YANG	LARC	N	NAS 1 19935	525
99	HAMPTON UNIV	S E MASSENBERG	LARC	P F MOLIN	NAG 1 1185	524
99	HARVARD UNIV	A NURRIDDIN	GSFC	A LOEB	NGT 5 50028	290
99	HARVARD UNIV	A NURRIDDIN	GSFC	J GRINDLEY	NGT 5 50020	290
99	HARVARD UNIV	A NURRIDDIN	HQ	D NAHUM	NGT 5 50122	290
99	HARVARD UNIV	A NURRIDDIN	HQ	L G VALIANT	NGT 5 50145	290
99	HOWARD UNIV	D MENCHAN	GSFC	M C WOODWARD	NAG 5 2944	161
99	HOWARD UNIV	D V GALLAWAY	HQ	M W THOMPSON	NGT 10002	162
99	HOWARD UNIV	G A SOFFEN	GSFC	A N THORPE	NCC 5 184	162
99	HOWARD UNIV	G SOFFEN	GSFC	J B HALPERN	NGT 5 37	162
99	HOWARD UNIV	J HARRINGTN	GSFC	E DORSEY	NCC 5 192	162
99	HUNTER COLLEGE	J F DOWDY	MSFC	L COHEN	NAG 8 1259	388
99	HUSTON-TILLOTSON COLLEGE	C HOSKINS	JSC	N KAY	NAG 9 775	480
99	ILLINOIS INST OF TECH	S P WILKINSON	LARC	J ORNELAS	NGT 90179	206
99	INDIANA UNIV - BLOOMINGTON	A NURRIDDIN	HQ	V E VIOLA	NGT 5 50162	225
99	IOWA STATE UNIV	A NURRIDDIN	HQ	J W WIENCEK	NGT 5 50137	233
99	IOWA STATE UNIV	E SCHWARTZ	HQ	W J BYRD	NGT 40018	232
99	IOWA STATE UNIV	F J MONTEGANI	LERC	W J BYRD	NGT 5 40027	233
99	JACKSON STATE UNIV	A R JOYCE	SSC	C HARPER	NGT13 52713	333
99	JACKSON STATE UNIV	A T JOYCE	SSC	P B TCHOUNWOU	NAG13 49	333
99	JACKSON STATE UNIV	B L WHITE	HQ	A MOHAMED	NAGW 4487	333
99	JACKSON STATE UNIV	B WHITE	GSFC	R SULLIVAN	NGT 5 90067	333
99	JACKSON STATE UNIV	M MARGOLIS	HQ	R SULLIVAN	NGT 90034	333
99	JACKSON STATE UNIV	M STOUTSENBERGER	HQ	A MOHAMED	NAG 5 6086	332
99	JARVIS CHRISTIAN COLLEGE	B L WHITE	HQ	J JOHNSON	NAGW 4523	480
99	JARVIS CHRISTIAN COLLEGE	M STOUTSENBERER	GSFC	M MCKINNEY	NAG 5 3776	480
99	JOHN C	S PAYNE	MSFC	R CARPENTER	NCC 8 118	4
99	JOHNS HOPKINS UNIV	B CAMPBELL	GSFC	D L MCNUTT	NAG 5 6014	255
99	JOHNS HOPKINS UNIV	B CAMPBELL	GSFC	D W MCENTIRE	NAG 5 4548	254
99	JOHNS HOPKINS UNIV	D R MENGERS	GSFC	D MOOS	NAG 5 3448	252
99	JOHNS HOPKINS UNIV	E T SCHWARTZ	HQ	R C HENRY	NGT 40004	259
99	JOHNS HOPKINS UNIV	L KEFFER	GSFC	R C HENRY	NGT 5 40029	259
99	JOHNS HOPKINS UNIV	L KEFFER	GSFC	R C HENRY	NGT 5 40049	259

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99	JOHNS HOPKINS UNIV	M M MELLOTT	HQ	J YEE	NAGW 5054	258
99	JOHNS HOPKINS UNIV	T KOSTIUK	HQ	R E GOLD	NAGW 5105	258
99	JOHNS HOPKINS UNIV	T KOSTIUK	HQ	R W MCENTIRE	NAGW 5093	258
99	KANSAS STATE UNIV	K P LULLA	JSC	M D NELLIS	NAG 9 872	237
99	KENT STATE UNIV	J STORTI	LERC	J D KELLER	NAG 3 1751	422
99	LE TOURNEAU COLLEGE	D SIX	MSFC	D FORD	NAG 8 1221	481
99	LINCOLN UNIV - PA	B L WHITE	HQ	J ISAAC	NAGW 4654	447
99	LINCOLN UNIV - PA	D RUSSELL	HQ	R LANGLEY	NAGW 4544	447
99	LINCOLN UNIV - PA	M STOUTSENBERGER	GSFC	R LANGLEY	NAG 5 4492	447
99	LOUISIANA STATE UNIV - BATON ROUGE	D K RUSSELL	HQ	A STERLING	NGT 90197	244
99	LOUISIANA STATE UNIV - BATON ROUGE	D K RUSSELL	HQ	A STERLING	NGT 90198	244
99	LOUISIANA STATE UNIV - BATON ROUGE	E T SCHWARTZ	HQ	J P WEFEL	NGT 40039	244
99	LOUISIANA STATE UNIV - BATON ROUGE	L KEFFER	GSFC	J P WEFEL	NCC 5 167	244
99	LOUISIANA STATE UNIV - BATON ROUGE	L KEFFER	GSFC	J P WEFEL	NGT 5 40035	244
99	LOUISIANA STATE UNIV - BATON ROUGE	L KEFFER	HQ	J P WEFEL	NCCW 59	244
99	LOUISIANA TECH UNIV	D RUSSELL	HQ	F AKI	NGT 90196	245
99	LOUISIANA TECH UNIV	R LAWRENCE	GSFC	F AKL	NGT 5 90004	245
99	LOYOLA MARYMOUNT UNIV	F SIX	MSFC	J SANNY	NAG 8 275	57
99	MANKATO STATE UNIV	F SIX	MSFC	J HAKKILA	NAG 8 192	327
99	MARQUETTE UNIV	F SIX	MSFC	J RICHIE	NAG 8 256	557
99	MASSACHUSETTS INST OF TECH	A NURRIDDIN	GSFC	L MCKIGHT	NGT 5 50037	307
99	MASSACHUSETTS INST OF TECH	D E SMITH	GSFC	G H PETTENGILL	NAG 5 4434	298
99	MASSACHUSETTS INST OF TECH	D E SMITH	GSFC	T H JORDAN	NCC 5 212	306
99	MASSACHUSETTS INST OF TECH	D HOLLAND	HQ	L W MCKNIGHT	NGT 51407	306
99	MASSACHUSETTS INST OF TECH	D K RUSSELL	HQ	D WILSON	NGT 90213	307
99	MASSACHUSETTS INST OF TECH	D K RUSSELL	HQ	J JACKSON	NGT 90208	306
99	MASSACHUSETTS INST OF TECH	D K RUSSELL	HQ	J JACKSON	NGT 90211	307
99	MASSACHUSETTS INST OF TECH	D K RUSSELL	HQ	L OSGOOD	NGT 90210	307
99	MASSACHUSETTS INST OF TECH	D SMITH	GSFC	M ZUBER	NAG 5 4806	299
99	MASSACHUSETTS INST OF TECH	E T SCHWARTZ	HQ	L R YOUNGNGS	NGT 40001	306
99	MASSACHUSETTS INST OF TECH	E W FERGUSON	HQ	D J NEWMAN	NAGW 4498	303
99	MASSACHUSETTS INST OF TECH	G ASRAR	GSFC	D HU	NAG 5 6370	300
99	MASSACHUSETTS INST OF TECH	J B WILLETT	HQ	D J LAZARUS	NAGW 5181	304
99	MASSACHUSETTS INST OF TECH	L KEFFER	GSFC	L R YOUNG	NGT 5 40048	307
99	MASSACHUSETTS INST OF TECH	R LAWRENCE	GSFC	L OSGOOD	NGT 5 90065	307
99	MASSACHUSETTS INST OF TECH	S NICHOLS	HQ	N	NASW 5071	305
99	MEDGAR EVERS COLLEGE	M MATEU	GSFC	L P JOHNSON	NAG 5 3480	388
99	MEDGAR EVERS COLLEGE	M MATEU	HQ	L P JOHNSON	NAGW 4657	388
99	MIAMI UNIV	A NURRIDDIN	GSFC	J Z KISS	NGT 5 50041	423
99	MICHIGAN STATE UNIV	A NURRIDDIN	HQ	P WEBBER	NGT 5 50150	314
99	MICHIGAN TECHNOLOGICAL UNIV	J BERGSTRALH	HQ	A BORYSOW	NAGW 4566	314
99	MISSISSIPPI VALLEY STATE UNIV	N SULLIVAN	JSC	S J WHITE	NAG13 51	334
99	MONTANA STATE UNIV	E T SCHWARTZ	HQ	W A HISCOCK	NGT 40041	344
99	MONTANA STATE UNIV	L KEFFER	GSFC	W A HISCOCK	NGT 5 40036	344
99	MONTANA STATE UNIV	M V PHELPS	GSFC	G TUTHILL	NAG 5 4576	343
99	MORGAN STATE UNIV	D K RUSSELL	HQ	E DELOATCH	NGT 90117	260
99	MT SINAI SCH OF MED OF THE CUNY	A M LEE	JSC	D COHEN	NAS 9 19441	389
99	NATIONAL HISPANIC UNIV	G S LEE	ARC	R D PARKER	NAG 2 6016	57
99	NATIONAL HISPANIC UNIV	M STOUTSENBERGER	GSFC	M E RIDDLE	NAG 5 4182	58
99	NEW JERSEY INST OF TECH	F SIX	MSFC	S BAOHERI	NAG 8 1114	357
99	NEW MEXICO HIGHLANDS UNIV	D RUSSELL	HQ	B TAYLOER	NGT 5 90042	364
99	NEW MEXICO HIGHLANDS UNIV	E COX	DFRC	H W TAYLOR	NGT 90070	364
99	NEW MEXICO HIGHLANDS UNIV	M STOUYSENBERGER	GSFC	J C	NGT 5 90069	364
99	NEW MEXICO STATE UNIV - LAS CRUCES	A NURRIDDIN	GSFC	R WALTERBOS	NGT 5 50019	367
99	NEW MEXICO STATE UNIV - LAS CRUCES	A NURRIDDIN	GSFC	S CASTILLO	NGT 5 50117	367
99	NEW MEXICO STATE UNIV - LAS CRUCES	A NURRIDDIN	HQ	M MARLEY	NGT 5 50148	367
99	NEW MEXICO STATE UNIV - LAS CRUCES	D HOLLAND	HQ	P HYNES	NGT 90114	367
99	NEW MEXICO STATE UNIV - LAS CRUCES	D K RUSSELL	HQ	P HYNES	NGT 90115	367
99	NEW MEXICO STATE UNIV - LAS CRUCES	D K RUSSELL	HQ	P HYNES	NGT 90161	367
99	NEW MEXICO STATE UNIV - LAS CRUCES	E T SCHWARTZ	HQ	S HORAN	NGT 40019	367
99	NEW MEXICO STATE UNIV - LAS CRUCES	L KEFFER	GSFC	S HORAN	NGT 5 40061	367
99	NEW MEXICO STATE UNIV - LAS CRUCES	R K DISMUKES	ARC	G E YOUNG	NCC 2 1002	367
99	NORFOLK STATE UNIV	M CANRIGHT	LARC	M NEWSOME	NAG 1 1937	526
99	NORFOLK STATE UNIV	R HATHAWAY	LARC	E WITTY	NAG 1 1705	526
99	NORFOLK STATE UNIV	R HATHAWAY	LARC	J BOYD	NAG 1 1967	526
99	NORFOLK STATE UNIV	S CANRIGHT	LARC	C COLEMAN	NAG 1 1948	526

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99	NORTH CAROLINA A&T STATE UNIV	C WILKERSON	MSFC	D J SCHULZ	NAG 8 1247	405
99	NORTH CAROLINA A&T STATE UNIV	D K RUSSELL	HQ	L SHARPE	NGT 90083	406
99	NORTH CAROLINA A&T STATE UNIV	D K RUSSELL	HQ	L SHARPE	NGT 90084	406
99	NORTH CAROLINA A&T STATE UNIV	D K RUSSELL	HQ	L SHARPE	NGT 90085	406
99	NORTH CAROLINA A&T STATE UNIV	D K RUSSELL	HQ	L SHARPE	NGT 90086	406
99	NORTH CAROLINA A&T STATE UNIV	D K RUSSELL	HQ	L SHARPE	NGT 90087	406
99	NORTH CAROLINA A&T STATE UNIV	D K RUSSELL	HQ	L SHARPE	NGT 90088	406
99	NORTH CAROLINA A&T STATE UNIV	J D ERICK SUN	JSC	B RAM	NAG 9 973	406
99	NORTH CAROLINA A&T STATE UNIV	R K DISMAKES	ARC	C A NTUEN	NCC 2 987	406
99	NORTH CAROLINA A&T STATE UNIV	S E MASSENBERG	HQ	J C KELLY JR	NAGW 2924	406
99	NORTH CAROLINA A&T STATE UNIV	S E MASSENBERG	LARC	L SHARPE	NAG 1 956	404
99	NORTH CAROLINA A&T STATE UNIV	S E MASSENBERG	LARC	L SHARPE	NAS 1 19157	406
99	NORTH CAROLINA STATE UNIV	A C JANETOS	HQ	S KHORRAM	NGT 30328	409
99	NORTH CAROLINA STATE UNIV	C	ARC	D W BRENNER	NAG 2 1119	408
99	NORTH CAROLINA STATE UNIV	C LEVIT	ARC	B I YAKOBSON	NAG 2 1115	408
99	NORTH CAROLINA STATE UNIV	D K RUSSELL	HQ	W COLEMAN	NGT 90225	409
99	NORTH CAROLINA STATE UNIV	F REEVES	MSFC	K J BACHMANN	NCC 8 95	409
99	NORTH CAROLINA STATE UNIV	J L THOMAS	LARC	G ALEXOPOULOS	NGT 1 52154	410
99	NORTH CAROLINA STATE UNIV	L KEFFER	GSFC	F R DEJARNETTE	NGT 5 40011	410
99	NORTH CAROLINA STATE UNIV	L KEFFER	HQ	G N WALBERG	NGT 40031	409
99	NORTH CAROLINA STATE UNIV	M JONES	HQ	W E COLEMAN	NGT 90126	409
99	NORTH CAROLINA STATE UNIV	S E MASSENBERG	LARC	P R DAIL	NAG 1 1905	407
99	NORTHERN ARIZONA UNIV	B L WHITE	HQ	A TANAKEYOWMA	NAGW 3906	26
99	NORTHWEST INDIAN COLLEGE	B WHITE	HQ	D MCDONALD	NAGW 5143	544
99	NORTHWESTERN UNIV	A NURRIDDIN	GSFC	B J MATKOWSKY	NGT 5 50038	209
99	NORTHWESTERN UNIV	A NURRIDDIN	GSFC	M MATALON	NGT 5 50016	209
99	OAKWOOD COLLEGE	J HALE	MSFC	K BENN-MARSHALL	NAG 8 1300	4
99	OHIO STATE UNIV	A NURRIDDIN	HQ	M EVANS	NGT 5 50015	429
99	OHIO STATE UNIV	G FOGLEMAN	HQ	D D WOODS	NAGW 4560	427
99	OHIO STATE UNIV	L SPIRKOVSKA	ARC	P J SMITH	NAG 2 1156	423
99	OKLAHOMA STATE UNIV	L B BILBROUGH	HQ	K WIGGINS	NASW 4516	437
99	OKLAHOMA STATE UNIV	L BILBROUGH	HQ	K WIGGINS	NASW 5043	437
99	OKLAHOMA STATE UNIV	L BILBROUGH	HQ	K WIGGINS	NCCW 5	438
99	OKLAHOMA STATE UNIV	P L MOUNTJOY	GSFC	K E WIGGINS	NCC 5 185	437
99	OLD DOMINION UNIV	G ALCORN	GSFC	B M REED	NAG 5 3567	529
99	OLD DOMINION UNIV	L KEFFER	GSFC	M L SANDY	NGT 5 40009	532
99	OLD DOMINION UNIV	L KEFFER	GSFC	M L SANDY	NGT 5 40059	532
99	OLD DOMINION UNIV	R A HATHAWAY	LARC	S TIWARI	NGT 1 52157	531
99	OLD DOMINION UNIV	Y R YADVISH	HQ	B REED	NAGW 5248	529
99	OREGON STATE UNIV	E P CONDON	ARC	M ABBOTT	NGT 5 30064	442
99	OREGON STATE UNIV	E T SCHWARTZ	HQ	D R CALDWELL	NGT 40033	442
99	OREGON STATE UNIV	L CHAMBERS	GSFC	C SNOW	NGT 5 50080	442
99	OREGON STATE UNIV	L KEFFER	GSFC	A C KLEIN	NGT 5 40022	442
99	OUR LADY OF THE LAKE UNIV	L ARMENDARIZ	JSC	J KUEKER	NAG 9 976	481
99	PARKS COLLEGE OF ST	F SIX	MSFC	C E MONFORT	NAG 8 267	209
99	PASADENA CITY COLLEGE	B WHITE	HQ	J CONNER	NAGW 5165	58
99	PEMBROKE STATE UNIV	D RUSSELL	HQ	G L SAMPSON	NAGW 4222	410
99	PEMBROKE STATE UNIV	R LAWRENCE	GSFC	J CLARK	NGT 5 90036	410
99	PENN STATE UNIV	A NURRIDDIN	GSFC	D BURROWS	NGT 5 50049	457
99	PENN STATE UNIV	A NURRIDDIN	HQ	C CROYSKEY	NGT 5 50112	457
99	PENN STATE UNIV	A NURRIDDIN	HQ	J F KASTING	NGT 5 50120	457
99	PENN STATE UNIV	A NURRIDDIN	HQ	P WALKER	NGT 5 50113	457
99	PENN STATE UNIV	A NURRIDDIN	HQ	S MCCLINTOCK	NGT 5 50147	457
99	PENN STATE UNIV	G ASRAR	GSFC	W BRUNE	NGT 5 30066	457
99	PENN STATE UNIV	I S SMITH	GSFC	I R HARRISON	NAG 5 643	449
99	PENN STATE UNIV	J F DOWDY	MSFC	G SUBRAMANIAM	NAG 8 1286	453
99	PENN STATE UNIV	L KEFFER	GSFC	R DEVON	NGT 5 40064	457
99	PENN STATE UNIV	L OSTENDORF	GSFC	R F DEVON	NGT 5 40002	457
99	PENN STATE UNIV	L T KEFFER	HQ	R DEVON	NGT 40002	456
99	PENN STATE UNIV	W A ORAN	HQ	W HYMER	NAGW 1196	453
99	PENN STATE UNIV	W J EMRICH, JR.	MSFC	G A SMITH	NAG 8 1321	453
99	PRAIRIE VIEW A&M UNIV	A JOYCE	SSC	S SHAKIR	NAG13 46	482
99	PRAIRIE VIEW A&M UNIV	B L WHITE	HQ	S SHAKIR	NAGW 4780	482
99	PRAIRIE VIEW A&M UNIV	K KRISTEN	JSC	C L TOLLIVER	NAG 9 779	481
99	PRINCE GEORGE	D MENCHAN	GSFC	P A CUNNIFF	NGT 90158	260
99	PRINCETON UNIV	A C JANETOS	GSFC	D A LEVIN	NAG 5 6422	359

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99	PRINCETON UNIV	R LAWRENCE	GSFC	P BOGUCK-CHATMAN	NGT 5 90041	361
99	PURDUE UNIV	A NURRIDDIN	HQ	J LONGUSKI	NGT 5 50110	228
99	PURDUE UNIV	D K RUSSELL	HQ	M MARTINEZ	NGT 90138	228
99	PURDUE UNIV	E T SCHWARTZ	HQ	D ANDRISANI	NGT 40025	228
99	PURDUE UNIV	L KEFFER	GSFC	D ANDRISANI	NGT 5 40043	228
99	RENSSELAER POLYTECH INST	D K RUSSELL	HQ	N BURNETT	NGT 90132	392
99	RENSSELAER POLYTECH INST	D RUSSELL	HQ	N BURNETT	NGT 90188	392
99	RENSSELAER POLYTECH INST	G A ROBERSTON	MSFC	L N MYRABO	NAG 8 1290	391
99	RENSSELAER POLYTECH INST	S MERRITT	LERC	M D SMITH	NAG 3 1696	390
99	RENSSELAER POLYTECH INST	T DE LOACH	MSFC	H WIEDEMEIER	NAS 8 39723	391
99	RICE UNIV	A NURRIDDIN	GSFC	D HEYMANN	NGT 5 50057	486
99	RICE UNIV	A NURRIDDIN	HQ	P H REIFF	NGT 5 50119	486
99	RICE UNIV	C LEVIT	ARC	G E SCUSERIA	NAG 2 1112	482
99	RICE UNIV	D K RUSSELL	HQ	R STABELL	NGT 90140	486
99	RICE UNIV	D K RUSSELL	HQ	R STABELL	NGT 90165	486
99	RICE UNIV	F SIX	MSFC	D TEEMAN	NAG 8 1196	484
99	RICE UNIV	J L CREWS	JSC	Y C ANGEL	NAG 9 929	484
99	RICE UNIV	L L GREEN	LARC	A CARLE	NCC 1 212	485
99	ROANOKE COLLEGE	D SIX	MSFC	A F BARGHOUTY	NAG 8 1208	532
99	RUTGERS STATE UNIV - PISCATAWAY	G ASRAR	GSFC	D ROBINSON	NGT 5 30062	362
99	RUTGERS STATE UNIV - PISCATAWAY	G ASRAR	GSFC	R G LATHROP	NGT 5 30100	362
99	SAINT AUGUSTINE	B WHITE	HQ	D M COSTON	NAGW 5150	410
99	SAINT AUGUSTINE	M STOUTSENBERGER	GSFC	Y M COSTEN	NAG 5 6097	410
99	SAINT LOUIS UNIV	A NURRIDDIN	GSFC	N PARTRIDGE	NGT 5 50047	336
99	SAN ANTONIO COLLEGE	LARMENDARIZ	JSC	C GONZALES	NAG 9 975	486
99	SAN DIEGO STATE UNIV	G ASRAR	GSFC	D ALLEN	NGT 5 30077	58
99	SAN DIEGO STATE UNIV	G ASRAR	GSFC	W C OECHEL	NGT 5 30118	58
99	SAN JOSE STATE UNIV	A NURRIDDIN	HQ	S WHITE	NGT 5 50115	62
99	SANTA CLARA UNIV	L A SHAWNEE	ARC	L MAHON	NAG 2 6011	62
99	SANTA CLARA UNIV	L SHAWNEE	ARC	L MAHON	NAGW 4245	62
99	SHAW UNIV	B L WHITE	HQ	J H KEYS	NAGW 4617	410
99	SHAW UNIV	R LAWRENCE	GSFC	M CLAYTON	NGT 5 90059	411
99	SOUTH CAROLINA STATE UNIV	B L WHITE	HQ	J W FULLER	NAGW 4618	470
99	SOUTH CAROLINA STATE UNIV	M MATEU	GSFC	J FULLER	NAG 5 4252	470
99	SOUTH DAKOTA SCH OF MINES & TECH	L KEFFER	GSFC	S O FARWELL	NGT 5 40042	472
99	SOUTH DAKOTA SCH OF MINES & TECH	L KEFFER	HQ	F CAMPONE	NGT 90139	472
99	SOUTH DAKOTA SCH OF MINES & TECH	L KEFFER	HQ	S O FARWELL	NGT 40046	472
99	SOUTH DAKOTA STATE UNIV	F SIX	MSFC	S SCHILLER	NAG 8 258	472
99	SOUTHERN UNIV & A&M COLLEGE	A T JOYCE	SSC	E HILDRETH	NGT13 52709	247
99	SOUTHERN UNIV & A&M COLLEGE	D K RUSSELL	HQ	D BAGAYOKO	NGT 90118	246
99	SOUTHERN UNIV & A&M COLLEGE	D K RUSSELL	HQ	D BAGAYOKO	NGT 90119	246
99	SOUTHERN UNIV & A&M COLLEGE	S MCDANIELS	KSC	C WANG	NCC 8 138	246
99	SOUTHWESTERN INDIAN POLYTECH INST	B L WHITE	HQ	J A JOHNSON	NAGW 5164	368
99	SPELMAN COLLEGE	B WHITE	GSFC	D FALCONER	NGT 5 90068	196
99	SPELMAN COLLEGE	D K RUSSELL	HQ	E FALCONER	NCCW 78	196
99	SPELMAN COLLEGE	D K RUSSELL	HQ	E FALCONER	NGT 90185	196
99	SPELMAN COLLEGE	D K RUSSELL	HQ	E FALCONER	NGT 90186	196
99	SPELMAN COLLEGE	D RUSSELL	HQ	E FALCONER	NGT 90090	196
99	SPELMAN COLLEGE	D RUSSELL	HQ	E FALCONER	NGT 90092	196
99	SPELMAN COLLEGE	D RUSSELL	HQ	E FALCONER	NGT 90093	196
99	SPELMAN COLLEGE	D RUSSELL	HQ	E FALCONER	NGT 90094	196
99	SPELMAN COLLEGE	D RUSSELL	HQ	E FALCONER	NGT 90096	196
99	SPELMAN COLLEGE	D RUSSELL	HQ	E FALCONER	NGT 90187	196
99	SPELMAN COLLEGE	L RANDOLPH	GSFC	E FALCONER	NCC 5 237	196
99	STANFORD UNIV	A NURRIDDIN	GSFC	R WAGONER	NGT 5 50044	72
99	STANFORD UNIV	A NURRIDDIN	HQ	J HOW	NGT 5 50075	72
99	STANFORD UNIV	C LEVIT	ARC	C B MUSGRAVE	NAG 2 1113	64
99	STANFORD UNIV	G ASRAR	GSFC	C FIELD	NGT 5 50101	72
99	STANFORD UNIV	H MIURA	ARC	I M KROO	NAG 2 1070	64
99	STANFORD UNIV	M M MOORE	ARC	G S SPRINGER	NGT 2 52212	71
99	STANFORD UNIV	R LAWRENCE	GSFC	N LOZANO	NGT 5 90066	72
99	STATE UNIV OF NY - ALBANY	G ASRAR	GSFC	D R FITZJARRALD	NGT 5 30081	394
99	STATE UNIV OF NY - STONY BROOK	M MEYER	HQ	D A SCHOONEN	NAGW 4915	398
99	STATE UNIV OF NY - STONY BROOK	S ASRAR	GSFC	M LERDAU	NGT 5 30124	398
99	STEVENS INST OF TECH	E T SCHWARTZ	HQ	D THANGAM	NGT 40032	363
99	STEVENS INST OF TECH	L KEFFER	GSFC	S THANGAM	NGT 5 40041	363

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99	STEVENS INST OF TECH	M MATEU	GSFC	T G WILLIAMS	NAG 5 3715	363
99	STILLMAN COLLEGE	B L WHITE	HQ	J WASHINGTON	NAGW 4486	4
99	STILLMAN COLLEGE	M STOUTSENBERGHER	GSFC	J CHRISTIAN	NAG 5 4588	4
99	TENNESSEE STATE UNIV	P SAKIMOTO	GSFC	M BUSBY	NCC 5 228	474
99	TENNESSEE TECHNOLOGICAL UNIV	J P DOWDY	MSFC	J C CHAI	NAG 8 1279	474
99	TEXAS A&M UNIV	D K RUSSELL	HQ	W D TURNER	NGT 90128	491
99	TEXAS A&M UNIV	D RUSSELL	HQ	W D TURNER	NGT 90190	491
99	TEXAS A&M UNIV	F E PEWARANDA	HQ	G SERA	NASW 4679	491
99	TEXAS A&M UNIV	J E CALOGERAS	LERC	F R BEST	NCC 3 516	491
99	TEXAS A&M UNIV	M STOUTSENBERGER	GSFC	M C DREW	NGT 5 70002	492
99	TEXAS A&M UNIV	R LAWRENCE	GSFC	W TURNER	NGT 5 90005	492
99	TEXAS SOUTHERN UNIV	M DIGOU	JSC	O KING	NAG 9 774	493
99	TEXAS SOUTHMOST COLLEGE	L ARMENDARIZ	JSC	L V LOF	NAG 9 965	493
99	TEXAS SOUTHMOST COLLEGE	L ARMENDARIZ	JSC	L V LOF	NAGW 3060	493
99	TEXAS TECH UNIV	A NURRIDDIN	HQ	S B YADAV	NGT 5 50151	494
99	THE CATHOLIC UNIV OF AMERICA	Y KONDO	GSFC	F C BRUHWEILER	NAG 5 3037	163
99	THE UNIV OF CENTRAL FLORIDA	A NURRIDDIN	HQ	C PARSONS	NGT 5 50128	175
99	THE UNIV OF CENTRAL FLORIDA	C DELAUNE	KSC	F GOMEZ	NAG10 120	173
99	THE UNIV OF CENTRAL FLORIDA	D K RUSSELL	HQ	J SMITH	NGT 90170	175
99	THE UNIV OF CENTRAL FLORIDA	G BUCKINGHAM	KSC	R W JOHNSON	NGT10 52605	175
99	THE UNIV OF CENTRAL FLORIDA	L KEEFER	HQ	H CAMPING	NGT 5 40015	175
99	THE UNIV OF CENTRAL FLORIDA	O THIELE	GSFC	L JONES	NAS 5 96135	174
99	THOMAS NELSON COMM COLLEGE	R HATHAWAY	LARC	M QUANTY	NAG 1 1860	532
99	TRENHOLM STATE TECH COLLEGE	C GRAVES	HQ	E C ROSS	NAGW 4089	4
99	TRENHOLM STATE TECH COLLEGE	L RANDOLPH	GSFC	E ROSS	NAG 5 4578	4
99	TUFTS UNIV	A NURRIDDIN	GSFC	C B ROGERS	NGT 5 50050	308
99	TUFTS UNIV	M J LEON	ARC	C B ROGERS	NCC 2 918	308
99	TUFTS UNIV	W J WAGNER	HQ	K R LANG	NAGW 5136	308
99	TULANE UNIV	D K RUSSELL	HQ	S SULLIVAN	NGT 90223	247
99	TURTLE MOUNTAIN COMM COLLEGE	B WHITE	HQ	S KARNAWAT	NAGW 3620	412
99	TURTLE MOUNTAIN COMM COLLEGE	P SAKIMOTO	GSFC	S KARNAWAT	NAG 5 6088	412
99	TUSKEGEE UNIV	B ST. CYR	SSC	E SHEPPARD	NAG13 50	6
99	TUSKEGEE UNIV	J ATKINSON	JSC	P A LORETAN	NGT 9 18	6
99	TUSKEGEE UNIV	J DATKINSON	JSC	P A LORETAN	NAG 9 870	5
99	TUSKEGEE UNIV	S E MASSENBERG	HQ	W A HILL	NAGW 2940	5
99	UNIV HOUSTON	D K RUSSELL	HQ	G F PASKUSZ	NGT 90245	496
99	UNIV HOUSTON	D RUSSELL	HQ	G F PASKUSZ	NGT 90176	496
99	UNIV HOUSTON	J D ATKINSON	JSC	W HOUSTON	NAG 9 658	494
99	UNIV OF MARYLAND AT BALTIMORE	N MAYNARD	GSFC	D W FORESMAN	NAG 5 4254	260
99	UNIV OF MINN – MINNEAPOLIS–ST PAUL	A NURRIDDIN	HQ	HALLEY	NGT 5 50091	332
99	UNIV OF MINN – MINNEAPOLIS–ST PAUL	E T SCHWARTZ	HQ	P W WEIBLER	NGT 40027	332
99	UNIV OF MINN – MINNEAPOLIS–ST PAUL	G ASRAR	GSFC	G POURFOULA	NGT 5 50104	332
99	UNIV OF MINN – MINNEAPOLIS–ST PAUL	G ASRAR	GSFC	M PERSON	NGT 5 30080	332
99	UNIV OF MINN – MINNEAPOLIS–ST PAUL	L KEFFER	GSFC	W L GARRARD	NGT 5 40040	332
99	UNIV OF TEXAS MED BRAN – GALVESTON	L CHAMBERS	GSFC	D BARRETT	NGT 5 50071	497
99	UNIV OF TEXAS–PAN AMERICAN	D K RUSSELL	HQ	W C SHOCKLEY	NGT 90162	497
99	UNIV OF TEXAS–PAN AMERICAN	D K RUSSELL	HQ	W C SHOCKLEY	NGT 90163	497
99	UNIV OF TEXAS–PAN AMERICAN	D K RUSSELL	HQ	W SHOCKLEY	NGT 90101	497
99	UNIV OF TEXAS–PAN AMERICAN	D K RUSSELL	HQ	W SHOCKLEY	NGT 90102	497
99	UNIV OF TEXAS–PAN AMERICAN	R LAWRENCE	GSFC	W C SHOCKLEY	NGT 5 90032	497
99	UNIV	L KEFFER	GSFC	J V TARANIK	NGT 5 40038	347
99	UNIV	L P CHAMBERS	GSFC	A HOLIAN	NGT 5 50084	499
99	UNIV OF AKRON	F J MONTEGANI	LERC	R K EBY	NGT 3 52327	431
99	UNIV OF ALABAMA – BIRMINGHAM	B CAMPBELL	GSFC	D J WDOWIAK	NAG 5 4550	6
99	UNIV OF ALABAMA – BIRMINGHAM	V THORNE	HQ	G CASSELL	NAGW 5081	7
99	UNIV OF ALABAMA – HUNTSVILLE	C R CHAPPELL	MSFC	A H YELLE	NAG 8 178	11
99	UNIV OF ALABAMA – HUNTSVILLE	C TALLEY	MSFC	K CHITTUR	NAG 8 1355	12
99	UNIV OF ALABAMA – HUNTSVILLE	E T SCHWARTZ	HQ	C A LUNDQUIST	NGT 40010	14
99	UNIV OF ALABAMA – HUNTSVILLE	J BILBRO	MSFC	D FORK	NGT 8 52812	15
99	UNIV OF ALABAMA – HUNTSVILLE	J F DOWDY	MSFC	G KARR	NAG 8 1388	12
99	UNIV OF ALABAMA – HUNTSVILLE	J R DOWDY	MSFC	G R KARR	NGT 8 52836	15
99	UNIV OF ALABAMA – HUNTSVILLE	J R DOWDY	MSFC	G R KARR	NGT 8 52837	16
99	UNIV OF ALABAMA – HUNTSVILLE	J S EHMEN	MSFC	G R KARR	NAG 8 1122	11
99	UNIV OF ALABAMA – HUNTSVILLE	L J SMITH	MSFC	W W VAUGHAN	NAS 8 38609	13
99	UNIV OF ALABAMA – HUNTSVILLE	L KEFFER	GSFC	J C GREGORY	NCC 5 165	14
99	UNIV OF ALABAMA – HUNTSVILLE	L KEFFER	GSFC	J GEOGORY	NGT 5 40018	15

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99	UNIV OF ALABAMA - HUNTSVILLE	L KEFFER	HQ	J GREGORY	NCCW 57	14
99	UNIV OF ALABAMA - HUNTSVILLE	M D WRIGHT	MSFC	A J DUNAR	NAS 8 97239	13
99	UNIV OF ALABAMA - HUNTSVILLE	M STOUTSENBERGER	GSFC	P G RICHARDS	NGT 5 70004	15
99	UNIV OF ALABAMA - UNIV	D K RUSSELL	HQ	G SINGLETON	NGT 90224	17
99	UNIV OF ALABAMA - UNIV	D V GALLAWAY	GSFC	M FREEMAN	NAG 5 4346	16
99	UNIV OF ALABAMA - UNIV	F SIX	MSFC	L M FREEMAN	NGT 8 52819	18
99	UNIV OF ALABAMA - UNIV	J PRIUTT	MSFC	L FREEMAN	NAG 8 1301	17
99	UNIV OF ALABAMA - UNIV	M HENDERSON	HQ	D SUNAL	NAGW 4405	17
99	UNIV OF ALASKA - ANCHORAGE	J ROOT	HQ	J FREDERICKS	NCCW 42	18
99	UNIV OF ALASKA - FAIRBANKS	E T SCHWARTZ	HQ	J G HAWKINS	NGT 40022	21
99	UNIV OF ALASKA - FAIRBANKS	L KEFFER	GSFC	J G HAWKINS	NGT 5 40014	21
99	UNIV OF ARIZONA	A NURRIDDIN	GSFC	F MELIA	NGT 5 50014	42
99	UNIV OF ARIZONA	A NURRIDDIN	GSFC	M LLOYD-HART	NGT 5 50046	42
99	UNIV OF ARIZONA	A NURRIDDIN	HQ	J LUNINE	NGT 5 50111	42
99	UNIV OF ARIZONA	A NURRIDDIN	HQ	M J DRAKE	NGT 5 50132	42
99	UNIV OF ARIZONA	B SEERY	GSFC	R ANGEL	NAG 5 3323	29
99	UNIV OF ARIZONA	D HOLLAND	HQ	J LUNINE	NGT 51646	41
99	UNIV OF ARIZONA	E BARKER	HQ	J SCOTTI	NAGW 4789	37
99	UNIV OF ARIZONA	E T SCHWARTZ	HQ	E LEVY	NGT 40006	40
99	UNIV OF ARIZONA	G ASRAR	GSFC	B M HERMAN	NGT 5 30051	41
99	UNIV OF ARIZONA	G ASRAR	GSFC	E H LEVY	NGT 5 40026	42
99	UNIV OF ARIZONA	G ASRAR	GSFC	J W SHUTTLEWORTH	NGT 5 30082	42
99	UNIV OF ARIZONA	G ASRAR	GSFC	M YITAYEW	NGT 5 30095	42
99	UNIV OF ARIZONA	G ASRAR	HQ	J A REAGAN	NGT 30215	40
99	UNIV OF ARIZONA	J D BOHLIN	HQ	F L HERBERT	NAGW 5147	38
99	UNIV OF ARIZONA	J KREHBIEL	HQ	B SANDEL	NAGW 4593	37
99	UNIV OF ARIZONA	N AVAILABLE	MSFC	N AVAILABLE	NAS 8 97309	39
99	UNIV OF ARIZONA	P ROGERS	GSFC	K RAMOHALLI	NAG 5 3837	30
99	UNIV OF ARIZONA	R AVANT	GSFC	K RAMOHALLI	NGT 5 41	41
99	UNIV OF ARKANSAS - LITTLE ROCK	L KEFFER	GSFC	G M NORTHROP	NGT 5 40063	43
99	UNIV OF ARKANSAS - LITTLE ROCK	L KEFFER	HQ	G NORTHROP	NCCW 55	42
99	UNIV OF CALIFORNIA - BERKELEY	A NURRIDDIN	GSFC	E HALLER	NGT 5 50048	87
99	UNIV OF CALIFORNIA - BERKELEY	A NURRIDDIN	GSFC	G FISHER	NGT 5 50035	87
99	UNIV OF CALIFORNIA - BERKELEY	A NURRIDDIN	GSFC	L BILDSTEN	NGT 5 50052	87
99	UNIV OF CALIFORNIA - BERKELEY	A NURRIDDIN	HQ	D C BACKER	NGT 5 50133	87
99	UNIV OF CALIFORNIA - BERKELEY	A NURRIDDIN	HQ	P PRICE	NGT 5 50157	87
99	UNIV OF CALIFORNIA - BERKELEY	A NURRIDDIN	HQ	R J SAYKALLY	NGT 5 50126	87
99	UNIV OF CALIFORNIA - BERKELEY	E BARKER	HQ	I DE PATER	NAGW 4796	81
99	UNIV OF CALIFORNIA - BERKELEY	F HASLER	GSFC	C CHRISTIAN	NAG 5 2875	74
99	UNIV OF CALIFORNIA - BERKELEY	G ASRAR	GSFC	D MATSON	NGT 5 30075	87
99	UNIV OF CALIFORNIA - BERKELEY	G ASRAR	GSFC	J KIRCHNER	NGT 5 30097	87
99	UNIV OF CALIFORNIA - BERKELEY	G ASRAR	GSFC	S CHAPIN	NGT 5 30071	86
99	UNIV OF CALIFORNIA - BERKELEY	G ASRAR	GSFC	W DIETRICH	NGT 5 30089	87
99	UNIV OF CALIFORNIA - BERKELEY	J D BOHLIN	HQ	R E ERGUN	NAGW 5127	82
99	UNIV OF CALIFORNIA - BERKELEY	L CHAMBERS	GSFC	FARLEY	NGT 5 50100	87
99	UNIV OF CALIFORNIA - BERKELEY	L CHAMBERS	GSFC	S HAMMOND	NGT 5 50072	87
99	UNIV OF CALIFORNIA - BERKELEY	M MATEU	HQ	D GALLIGANI	NGT 90039	86
99	UNIV OF CALIFORNIA - BERKELEY	PROGERS	HQ	F H SHU	NAGW 5109	82
99	UNIV OF CALIFORNIA - BERKELEY	W L WAGNER	HQ	G H FISHER	NAGW 5133	82
99	UNIV OF CALIFORNIA - DAVIS	G ASRAR	GSFC	J GIBELING	NGT 5 30073	91
99	UNIV OF CALIFORNIA - DAVIS	G ASRAR	GSFC	S L USTIN	NGT 5 30052	91
99	UNIV OF CALIFORNIA - DAVIS	J BERGSTRALH	HQ	W M JACKSON	NAGW 5083	89
99	UNIV OF CALIFORNIA - DAVIS	L CHAMBERS	GSFC	C FULLER	NGT 5 50068	91
99	UNIV OF CALIFORNIA - DAVIS	R B WELCH	ARC	R B POST	NCC 2 905	90
99	UNIV OF CALIFORNIA - IRVINE	D K RUSSELL	HQ	F HERMES	NGT 90173	94
99	UNIV OF CALIFORNIA - LOS ANGELES	A NURRIDDIN	HQ	W M HAMNER	NGT 5 50143	105
99	UNIV OF CALIFORNIA - LOS ANGELES	G ASRAR	GSFC	R P TURCO	NGT 5 30093	104
99	UNIV OF CALIFORNIA - LOS ANGELES	G MADDERA	LARC	R P TURCO	NAG 1 1899	94
99	UNIV OF CALIFORNIA - LOS ANGELES	H BRINTON	HQ	D A PAIGE	NAGW 5024	103
99	UNIV OF CALIFORNIA - LOS ANGELES	J NUTH	HQ	J F KERRIDGE	NAGW 5037	103
99	UNIV OF CALIFORNIA - SAN DIEGO	A NURRIDDIN	HQ	F BERMAN	NGT 5 50131	115
99	UNIV OF CALIFORNIA - SAN DIEGO	E LINSTROM	GSFC	B CORNUELLE	NAG 5 6327	111
99	UNIV OF CALIFORNIA - SAN DIEGO	E T SCHWARTZ	HQ	J ARNOLD	NGT 40005	114
99	UNIV OF CALIFORNIA - SAN DIEGO	L KEFFER	GSFC	J A ARNOLD	NGT 5 40007	114
99	UNIV OF CALIFORNIA - SAN DIEGO	L OSTENDORF	GSFC	J R ARNOLD	NGT 5 40057	115

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99	UNIV OF CALIFORNIA - SAN DIEGO	R HATHAWAY	LARC	J M SCHOPL	NGT 1 52133	114
99	UNIV OF CALIFORNIA - SANTA BARBARA	A J TUYAHOV	HQ	J E ESTES	NAGW 1743	117
99	UNIV OF CALIFORNIA - SANTA BARBARA	A NURRIDDIN	GSFC	D ROBERTS	NGT 5 50010	120
99	UNIV OF CALIFORNIA - SANTA BARBARA	A NURRIDDIN	HQ	P LUBIN	NGT 5 50127	120
99	UNIV OF CALIFORNIA - SANTA BARBARA	G ASRAR	GSFC	R SMITH	NGT 5 30063	119
99	UNIV OF CALIFORNIA - SANTA BARBARA	G ASRAR	GSFC	S DENNING	NGT 5 30070	119
99	UNIV OF CALIFORNIA - SANTA BARBARA	G ASRAR	GSFC	S SCHMIDT	NGT 5 30104	120
99	UNIV OF CALIFORNIA - SANTA BARBARA	G ASRAR	GSFC	T DUNNE	NGT 5 30050	119
99	UNIV OF CALIFORNIA - SANTA CRUZ	C LEVIT	ARC	W T WIPKE	NAG 2 1118	120
99	UNIV OF CALIFORNIA - SANTA CRUZ	G ASRAR	GSFC	D SILVER	NGT 5 30074	123
99	UNIV OF CALIFORNIA - SANTA CRUZ	G ASRAR	GSFC	G VALLIS	NGT 5 90077	123
99	UNIV OF CALIFORNIA - SANTA CRUZ	L ARMENDARIZ	JSC	M W JORDAN	NAG 9 877	121
99	UNIV OF CALIFORNIA - SANTA CRUZ	R LAWRENCE	GSFC	D E KLIGER	NGT 5 90022	123
99	UNIV OF CHICAGO	A NURRIDDIN	HQ	D SCHRAM	NGT 5 50142	216
99	UNIV OF CHICAGO	A NURRIDDIN	HQ	J FREIMAN	NGT 5 50140	216
99	UNIV OF CHICAGO	G ASRAR	GSFC	D MACAYEAL	NGT 5 30086	216
99	UNIV OF CHILE	W J BODIN	GSFC	E DIAZ	NAS 5 1925	572
99	UNIV OF CINCINNATI	A NURRIDDIN	GSFC	P L RICHARDSON	NGT 5 50040	433
99	UNIV OF CINCINNATI	G ASRAR	GSFC	S ISLAM	NGT 5 30049	433
99	UNIV OF CINCINNATI	G ASRAR	GSFC	S ISLAM	NGT 5 30058	433
99	UNIV OF CINCINNATI	S A MERRITT	LERC	E N PRATHER	NAG 3 1765	431
99	UNIV OF CINCINNATI	T J DAVIS	ARC	G L SLATER	NGT 2 52205	433
99	UNIV OF COLORADO - BOULDER	A NURRIDDIN	GSFC	D ETTER	NGT 5 50056	151
99	UNIV OF COLORADO - BOULDER	A NURRIDDIN	GSFC	D P SNOW	NGT 5 50032	151
99	UNIV OF COLORADO - BOULDER	A NURRIDDIN	HQ	E G ZWEIBEL	NGT 5 50141	151
99	UNIV OF COLORADO - BOULDER	A NURRIDDIN	HQ	P TODD	NGT 5 50090	151
99	UNIV OF COLORADO - BOULDER	A NURRIDDIN	HQ	R LEBEN	NGT 5 50124	151
99	UNIV OF COLORADO - BOULDER	D WICKLAND	GSFC	D A WESSMAN	NAG 5 6371	141
99	UNIV OF COLORADO - BOULDER	E T SCHWARTZ	HQ	E R HANSEN	NGT 40008	148
99	UNIV OF COLORADO - BOULDER	G ASRAR	GSFC	A R RAVIS	NGT 5 30076	151
99	UNIV OF COLORADO - BOULDER	G ASRAR	GSFC	J CURRY	NGT 5 30072	151
99	UNIV OF COLORADO - BOULDER	G ASRAR	GSFC	J OVERPECK	NGT 5 30059	150
99	UNIV OF COLORADO - BOULDER	G ASRAR	GSFC	J RUNDLE	NGT 5 50102	151
99	UNIV OF COLORADO - BOULDER	G ASRAR	GSFC	M TOLBERT	NGT 5 50070	151
99	UNIV OF COLORADO - BOULDER	G ASRAR	GSFC	M TOLBERT	NGT 5 50106	151
99	UNIV OF COLORADO - BOULDER	J D BOHLIN	HQ	I DOXAS	NAGW 5193	146
99	UNIV OF COLORADO - BOULDER	L JOHNSON	MSFC	F BAGENAL	NAG 8 1319	141
99	UNIV OF COLORADO - BOULDER	L KEFFER	GSFC	E R HANSEN	NGT 5 40028	151
99	UNIV OF COLORADO - BOULDER	L KEFFER	GSFC	W CASH	NGT 5 50022	151
99	UNIV OF COLORADO - BOULDER	R AVANT	GSFC	R SU	NAG 5 4100	136
99	UNIV OF COLORADO - BOULDER	R OLIVERSEN	GSFC	R DAVIS	NAG 5 3194	135
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99	UNIV OF CONNECTICUT	K POIMBOEUT	KSC	B JAVIDI	NAG10 191	153
99	UNIV OF CONNECTICUT	MA STOUTSENBERGER	HQ	D D STRAUSBAUGH	NGT 70422	153
99	UNIV OF DELAWARE	E T SCHWARTZ	HQ	N F NESS	NGT 40023	157
99	UNIV OF DELAWARE	L KEFFER	GSFC	N F NESS	NGT 5 40024	157
99	UNIV OF DISTRICT OF COLUMBIA	B WHITE	GSFC	W R COLEMAN	NAG 5 3961	165
99	UNIV OF DISTRICT OF COLUMBIA	L RANDOLPH	GSFC	W R COLEMAN	NAG 5 4724	165
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99	UNIV OF FLORIDA	A NURRIDDIN	HQ	B GUSTAFSON	NGT 5 50168	180
99	UNIV OF FLORIDA	A NURRIDDIN	HQ	C M TELSCO	NGT 5 50134	180
99	UNIV OF FLORIDA	A NURRIDDIN	HQ	T ANDERSON	NGT 5 50074	180
99	UNIV OF FLORIDA	B CAMPBELL	GSFC	D GUSTAFSON	NAG 5 4547	176
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99	UNIV OF FLORIDA	L CHAMBERS	GSFC	DURAN	NGT 5 50081	180
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99	UNIV OF HARTFORD	E T SCHWARTZ	HQ	L S NAGURNEY	NGT 40037	153
99	UNIV OF HARTFORD	F SIX	MSFC	L NAGURNEY	NAG 8 274	153
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99	UNIV OF HAWAII – MANOA	G ASRAR	GSFC	F JIN	NGT 5 30047	203
99	UNIV OF HAWAII – MANOA	J MCGARRY	GSFC	D HALL	NAS 5 32354	202
99	UNIV OF HAWAII – MANOA	L KEFFER	GSFC	P MOUGINIS–MARK	NGT 5 40021	203
99	UNIV OF HAWAII SYSTEM	A NURRIDDIN	GSFC	J E BARMES	NGT 5 50017	205
99	UNIV OF HAWAII SYSTEM	D NAVA	GSFC	G TAYLOR	NAG 5 3782	204
99	UNIV OF HAWAII SYSTEM	M BALTUCK	GSFC	P J MOUGINIS–MARK	NAG 5 4395	204
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99	UNIV OF IDAHO	L KEFFER	GSFC	R GILL	NGT 5 40056	206
99	UNIV OF IDAHO	L KEFFER	HQ	T ARMSTRONG	NGT 40038	206
99	UNIV OF IDAHO	M J LEON	ARC	D H ATKINSON	NCC 2 914	206
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99	UNIV OF IOWA	A NURRIDDIN	HQ	C V GISOLFI	NGT 5 50156	237
99	UNIV OF IOWA	A NURRIDDIN	HQ	J GOREE	NGT 5 50139	237
99	UNIV OF IOWA	J BERGSTRALH	HQ	W KURTH	NAGW 4668	236
99	UNIV OF IOWA	J FRAIZER	MSFC	C BECKERMANN	NCC 8 94	236
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99	UNIV OF IOWA	M M MELLOTT	HQ	J MENIETTI	NAGW 5051	236
99	UNIV OF KANSAS	A NURRIDDIN	HQ	R G PLUMB	NGT 5 50073	240
99	UNIV OF KANSAS	E T SCHWARTZ	HQ	D R DOWNING	NGT 40026	239
99	UNIV OF KANSAS	L KEFFER	GSFC	D R DOWNING	NCC 5 168	239
99	UNIV OF KANSAS	L KEFFER	GSFC	D R DOWNING	NGT 5 40033	240
99	UNIV OF KENTUCKY	C LEVIT	ARC	S B SINNOTT	NAG 2 1121	240
99	UNIV OF KENTUCKY	E SCHWARTZ	HQ	R HACKNEY	NGT 40049	241
99	UNIV OF MARYLAND – COLLEGE PARK	C TUNG	ARC	I CHOPRA	NCC 2 5160	275
99	UNIV OF MARYLAND – COLLEGE PARK	D K RUSSELL	HQ	M C RABENHORST	NGT 70321	277
99	UNIV OF MARYLAND – COLLEGE PARK	G A SOFFEN	GSFC	H R BOROSON	NGT 5 13	278
99	UNIV OF MARYLAND – COLLEGE PARK	G ASRAR	GSFC	B KEDEM	NGT 5 30087	278
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99	UNIV OF MARYLAND – COLLEGE PARK	V CEVENINI	HQ	J BARAS	NAGW 2777	271
99	UNIV OF MARYLAND – COLLEGE PARK	W J WAGNER	HQ	M J ASCHWANDEN	NAGW 5078	274
99	UNIV OF MARYLAND – EASTERN SHORE	D MENCHEN	GSFC	R MULLER	NAG 5 2765	278
99	UNIV OF MARYLAND BALTIMORE COUNTY	D MENCHEN	GSFC	HIABROWSKI	NAG 5 2751	278
99	UNIV OF MARYLAND BALTIMORE COUNTY	G A SOFFEN	GSFC	C WEIDEMANN	NCC 5 91	279
99	UNIV OF MARYLAND BALTIMORE COUNTY	M MATEU	HQ	C WOOLSTON	NGT 90155	279
99	UNIV OF MICHIGAN – ANN ARBOR	A NURRIDDIN	GSFC	J BOYD	NGT 5 50024	326
99	UNIV OF MICHIGAN – ANN ARBOR	A NURRIDDIN	GSFC	J BREGMAN	NGT 5 50025	326
99	UNIV OF MICHIGAN – ANN ARBOR	A NURRIDDIN	HQ	F NORI	NGT 5 50114	326
99	UNIV OF MICHIGAN – ANN ARBOR	A NURRIDDIN	HQ	G BALLESTER	NGT 5 50154	326
99	UNIV OF MICHIGAN – ANN ARBOR	D K RUSSELL	HQ	S GREGERMAN	NGT 90207	325
99	UNIV OF MICHIGAN – ANN ARBOR	E BARKER	HQ	M COMBI	NAGW 4797	323
99	UNIV OF MICHIGAN – ANN ARBOR	E T SCHWARTZ	HQ	R JOHNSON	NGT 40007	325
99	UNIV OF MICHIGAN – ANN ARBOR	G ASRAR	HQ	L L GEZON	NGT 30103	324
99	UNIV OF MICHIGAN – ANN ARBOR	J BERGSTRALH	HQ	W HARRIS	NAGW 4446	322
99	UNIV OF MICHIGAN – ANN ARBOR	L JOHNSON	MSFC	B F GILCHRIST	NAG 8 1305	321
99	UNIV OF MICHIGAN – ANN ARBOR	L KEFFER	GSFC	R M JOHNSON	NGT 5 40062	326
99	UNIV OF MICHIGAN – ANN ARBOR	R AVANT	GSFC	D T ULABY	NAG 5 4243	319
99	UNIV OF MICHIGAN – ANN ARBOR	R AVANT	GSFC	F ULABY	NGT 5 39	326
99	UNIV OF MISSISSIPPI – UNIV	E T SCHWARTZ	HQ	M R DINGERSON	NGT 40028	335
99	UNIV OF MISSISSIPPI – UNIV	L KEFFER	GSFC	M R DINGERSON	NGT 5 40032	335
99	UNIV OF MISSOURI – COLUMBIA	G ASRAR	GSFC	X ZHAUNG	NAG 5 6283	336
99	UNIV OF MISSOURI – ROLLA	L KEFFER	GSFC	B P SELBERG	NGT 5 40060	338
99	UNIV OF MISSOURI – ROLLA	L KEFFER	HQ	B P SELBERG	NGT 40057	338

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99	UNIV OF MONTANA	A C JANETOS	HQ	S RUNNING	NAGW 4511	344
99	UNIV OF NEBRASKA – LINCOLN	A J TUYAHOV	HQ	D C RUNDQUIST	NAGW 4574	346
99	UNIV OF NEBRASKA – LINCOLN	A NURRIDDIN	HQ	SAMAL	NGT 5 50098	346
99	UNIV OF NEBRASKA – LINCOLN	J HARRIS	GSFC	D RUNDQUIST	NAG 5 4217	345
99	UNIV OF NEBRASKA – LINCOLN	L KEFFER	GSFC	B D BOWEN	NCC 5 169	346
99	UNIV OF NEBRASKA–OMAHA	L KEFFER	GSFC	B D BOWEN	NGT 5 40037	347
99	UNIV OF NEBRASKA–OMAHA	L KEFFER	HQ	B B BOWEN	NGT 40051	346
99	UNIV OF NEVADA – LAS VEGAS	E T SCHWARTZ	HQ	J A GARNDER	NGT 40042	348
99	UNIV OF NEW HAMPSHIRE – DURHAM	A NURRIDDIN	GSFC	C KLETZING	NGT 5 50055	356
99	UNIV OF NEW HAMPSHIRE – DURHAM	E T SCHWARTZ	HQ	D S BARHETT	NGT 40030	356
99	UNIV OF NEW HAMPSHIRE – DURHAM	G ASRAR	GSFC	D ABER	NGT 5 30083	356
99	UNIV OF NEW HAMPSHIRE – DURHAM	J D BOHLIN	HQ	L KISTLER	NAGW 5148	355
99	UNIV OF NEW HAMPSHIRE – DURHAM	J WILLETT	HQ	D KISTTER	NAGW 4919	355
99	UNIV OF NEW HAMPSHIRE – DURHAM	L KEFFER	GSFC	D S BARTLETT	NGT 5 40001	356
99	UNIV OF NEW HAMPSHIRE – DURHAM	L KEFFER	GSFC	D S BARTLETT	NGT 5 40010	356
99	UNIV OF NEW HAMPSHIRE – DURHAM	W J WAGNER	HQ	W VESTRAND	NAGW 5146	355
99	UNIV OF NEW MEXICO	D K RUSSELL	HQ	M LEE	NGT 90221	369
99	UNIV OF NEW MEXICO	M MATEU	GSFC	J TORRES	NGT 5 30045	369
99	UNIV OF NEW ORLEANS	F SIX	MSFC	J J HEGSETH	NAG 8 1116	248
99	UNIV OF NORTH ALABAMA	V ZANONI	SSC	L K MATHEWS	NAG13 37	18
99	UNIV OF NORTH ALABAMA	V ZANONI	SSC	L KEYS–MATHEWS	NAG13 58	18
99	UNIV OF NORTH CAROLINA – CHAPEL HILL	D NOEUEN	MSFC	C W CANTIN	NAG 8 1148	411
99	UNIV OF NORTH CAROLINA	J F DOWDY	MSFC	R D FORSYTHE	NAG 8 1314	411
99	UNIV OF NORTH DAKOTA	E T SCHWARTZ	HQ	C A WOOD	NGT 40043	413
99	UNIV OF NORTH DAKOTA	L KEFFER	GSFC	C A WOOD	NGT 5 40034	413
99	UNIV OF OKLAHOMA – NORMAN	E T SCHWARTZ	HQ	K L HOVING	NGT 40052	438
99	UNIV OF OKLAHOMA – NORMAN	G ASRAR	GSFC	P J MCCANN	NGT 5 30103	438
99	UNIV OF OKLAHOMA – NORMAN	L KEFFER	GSFC	S DUCA	NCC 5 171	438
99	UNIV OF OKLAHOMA – NORMAN	L KEFFER	GSFC	V DUCA	NGT 5 40013	439
99	UNIV OF OREGON – EUGENE	G ASRAR	GSFC	E HUMPHREYS	NGT 5 50105	443
99	UNIV OF PENNSYLVANIA	A NURRIDDIN	HQ	N FARHAT	NGT 5 50109	459
99	UNIV OF PITTSBURGH	A NURRIDDIN	HQ	B YATES	NGT 5 50029	461
99	UNIV OF PITTSBURGH	F E PENARANDA	HQ	L S HUMMEL	NASW 4677	461
99	UNIV OF PITTSBURGH	J OWENS	MSFC	J M JESSUP	NAG 9 835	460
99	UNIV OF PUERTO RICO – MAYAGUEZ		HQ	B RAMINEZ	NAGW 4614	570
99	UNIV OF PUERTO RICO – MAYAGUEZ	E T SCHWARTZ	HQ	J G GONZALES	NGT 40053	570
99	UNIV OF PUERTO RICO – MAYAGUEZ	L KEFFER	GSFC	J G GONZALEZ	NGT 5 40012	571
99	UNIV OF PUERTO RICO HUMACAO U COL	B L WHITE	HQ	A M GIERBOLINI	NAGW 4619	571
99	UNIV OF PUERTO RICO HUMACAO U COL	M MATEU	GSFC	A M GIERBOLINI	NAG 5 3473	571
99	UNIV OF PUERTO RICO–RIO PIEDRAS	L KEFFER	HQ	B WINNER	NCCW 56	571
99	UNIV OF RHODE ISLAND	N KHAZENIE	GSFC	L CARTER	NAG 5 3895	466
99	UNIV OF SOUTH ALABAMA	J F DOWDY	MSFC	P KULKARNI	NAG 8 1397	18
99	UNIV OF SOUTH CAROLINA–COLUMBIA	D K RUSSELL	HQ	M SUTTON	NGT 90145	470
99	UNIV OF SOUTH CAROLINA–COLUMBIA	L KEFFER	GSFC	J D ODOM	NCC 5 174	470
99	UNIV OF SOUTH FLORIDA	D K RUSSELL	HQ	J O	NGT 90103	184
99	UNIV OF SOUTH FLORIDA	S LITTLE	MSFC	S N BUSANSKY	NCC 8 31	184
99	UNIV OF SOUTHERN CALIFORNIA	C CAMPBELL	GSFC	D L JUDGE	NAG 5 4539	124
99	UNIV OF SOUTHERN CALIFORNIA	D K RUSSELL	HQ	L YATES	NGT 90142	126
99	UNIV OF SOUTHERN CALIFORNIA	D K RUSSELL	HQ	L YATES	NGT 90171	126
99	UNIV OF SOUTHERN CALIFORNIA	F E PENARANDA	HQ	R STARK	NASW 4680	126
99	UNIV OF SOUTHERN CALIFORNIA	G ASRAR	HQ	T DICKEY	NGT 30180	126
99	UNIV OF SOUTHERN CALIFORNIA	H LUM	ARC	C L NIKIAS	NAS 2 96009	125
99	UNIV OF SOUTHERN MISSISSIPPI	F SIX	MSFC	D Y LOCHHEAD	NGT 8 52810	335
99	UNIV OF TEXAS – AUSTIN	C S HAYWARD	ARC	G KOZMETSKY	NCC 2 787	508
99	UNIV OF TEXAS – AUSTIN	D K RUSSELL	HQ	R H BISHOP	NGT 90216	509
99	UNIV OF TEXAS – AUSTIN	E T SCHWARTZ	HQ	B D TAPLEY	NGT 40003	508
99	UNIV OF TEXAS – AUSTIN	J MCGARRY	GSFC	P J SHELUS	NAS 5 32997	508
99	UNIV OF TEXAS – AUSTIN	L KEFFER	GSFC	B D TAPLEY	NGT 5 40005	509
99	UNIV OF TEXAS – AUSTIN	L OSTENDORF	GSFC	B D TAPLEY	NGT 5 40016	509
99	UNIV OF TEXAS – AUSTIN	L OSTENDORF	GSFC	B D TAPLEY	NGT 5 40053	509
99	UNIV OF TEXAS – AUSTIN	R G FORMAN	JSC	D E MEAR	NAG 9 890	505
99	UNIV OF TEXAS – AUSTIN	W J HUFFSTETLER	JSC	G KOZMETSKY	NCC 9 22	508
99	UNIV OF TEXAS – DALLAS	A NURRIDDIN	GSFC	L TAAMIL	NGT 5 50058	511
99	UNIV OF TEXAS – DALLAS	B CAMPBELL	GSFC	D H HOFFMAN	NAG 5 4644	510
99	UNIV OF TEXAS – EL PASO	B DELIWALA	KSC	R QUINTANA	NAG10 225	512
99	UNIV OF TEXAS – EL PASO	B WHITE	HQ	A LOPEZ	NGT 90044	512

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99	UNIV OF TEXAS - EL PASO	D K RUSSELL	HQ	A LOPEZ	NGT 90125	512
99	UNIV OF TEXAS - EL PASO	J MALONE	GSFC	S STARKS	NCC 5 209	512
99	UNIV OF TEXAS - EL PASO	M MATEU	HQ	J HERRERA	NAGW 4536	512
99	UNIV OF TEXAS - EL PASO	M STOUTSENBERGER	GSFC	J HERRERA	NAG 5 4155	511
99	UNIV OF TEXAS - EL PASO	R D EASON	GSFC	M A KOLITSKY	NCC 5 207	512
99	UNIV OF TEXAS AT BROWNSVILLE	L ARMENDARIZ	JSC	M MANCILLAS	NAG 9 776	513
99	UNIV OF TEXAS AT BROWNSVILLE	L ARMENDARIZ	JSC	R RAMIREZ	NAG 9 801	513
99	UNIV OF TEXAS AT SAN ANTONIO	R LAWRENCE	GSFC	L WILLIAMS	NGT 5 90045	513
99	UNIV OF UTAH	A NURRIDDIN	GSFC	K SHARP	NGT 5 50088	516
99	UNIV OF UTAH	G ASRAR	GSFC	K LIOU	NGT 5 30078	516
99	UNIV OF UTAH	M BALTUCK	HQ	D CHAPMAN	NGT 30257	515
99	UNIV OF UTAH	W C STAMPER	HQ	R PUGMIRE	NAGW 3687	515
99	UNIV OF UTAH	W SCHIMMERLING	HQ	R T WARTERS	NAGW 4914	515
99	UNIV OF VERMONT	A NURRIDDIN	HQ	T KELLER	NGT 5 60002	519
99	UNIV OF VERMONT	J F DOWDY	MSFC	G MIRCHANDANI	NAG 8 1281	518
99	UNIV OF VERMONT	L CHAMBERS	GSFC	T S KELLER	NGT 5 60000	519
99	UNIV OF VERMONT	L KEFFER	GSFC	W D LAKIN	NGT 5 40045	519
99	UNIV OF VERMONT	L KEFFER	HQ	W D LAKIN	NGT 40054	519
99	UNIV OF VIRGINIA	A NURRIDDIN	GSFC	T W CROWE	NGT 5 50118	539
99	UNIV OF VIRGINIA	H BRINTON	HQ	R JOHNSON	NAGW 4310	536
99	UNIV OF WASHINGTON	A NURRIDDIN	GSFC	G LAKE	NGT 5 50078	554
99	UNIV OF WASHINGTON	B EMRICH	MSFC	D HOFFMAN	NCC 8 116	552
99	UNIV OF WASHINGTON	E T SCHWARTZ	HQ	G K PARKS	NGT 40011	553
99	UNIV OF WASHINGTON	G ASRAR	GSFC	D HARTMANN	NGT 5 30085	553
99	UNIV OF WASHINGTON	G ASRAR	GSFC	D LETTENMAIER	NGT 5 30090	554
99	UNIV OF WASHINGTON	G ASRAR	GSFC	J W MURRAY	NGT 5 30053	553
99	UNIV OF WASHINGTON	G ASRAR	GSFC	P V HOBBS	NGT 5 30094	554
99	UNIV OF WASHINGTON	G ASRAR	GSFC	R MCDUFF	NGT 5 30067	553
99	UNIV OF WASHINGTON	G ASRAR	HQ	S E YUTER	NGT 30100	552
99	UNIV OF WASHINGTON	G ASRAR	HQ	W T WELCH	NGT 30123	552
99	UNIV OF WASHINGTON	L KEFFER	GSFC	G K PARKS	NGT 5 40017	554
99	UNIV OF WASHINGTON	M D MOORE	ARC	E LIVNE	NAG 2 723	544
99	UNIV OF WASHINGTON	R A BINDSCHADLER	GSFC	D P WINEBRENNER	NAG 5 3078	546
99	UNIV OF WASHINGTON	R H THOMAS	HQ	D A ROTHROCK	NAGW 5177	551
99	UNIV OF WISCONSIN - MADISON	A N URRIDDEN	HQ	TIMBIE	NGT 5 50039	566
99	UNIV OF WISCONSIN - MADISON	A NURRIDDIN	GSFC	R COOPER	NGT 5 50053	566
99	UNIV OF WISCONSIN - MADISON	A NURRIDDIN	HQ	B D SAVAGE	NGT 5 50121	566
99	UNIV OF WISCONSIN - MADISON	L DALL-BAUMAN	JSC	M ANDERSON	NAG 9 855	562
99	UNIV OF WISCONSIN - MADISON	R A SCHIFFER	HQ	S ACKERMAN	NGT 30271	565
99	UNIV OF WISCONSIN - MILWAUKEE	E T SCHWARTZ	HQ	G T MOORE	NGT 40035	567
99	UNIV OF WISCONSIN - MILWAUKEE	L KEFFER	GSFC	G T MOORE	NGT 5 40039	567
99	UNIV OF WYOMING	E T SCHWARTZ	HQ	P E JOHNSON	NGT 40050	569
99	UNIV OF WYOMING	L KEFFER	GSFC	P E JOHNSON	NGT 5 40008	569
99	UTAH STATE UNIV	A NURRIDDIN	GSFC	C CALDWELL	NGT 5 50011	518
99	UTAH STATE UNIV	H CARR	SSC	F J REDD	NGT 40014	518
99	UTAH STATE UNIV	L KEFFER	GSFC	D BAKER	NGT 5 40047	518
99	VA POLYTECH INST & ST UNIV	D RUSSELL	HQ	J NOTTINGHAM	NGT 90206	542
99	VA POLYTECH INST & ST UNIV	D RUSSELL	HQ	J NOTTINGHAM	NGT 90215	542
99	VA POLYTECH INST & ST UNIV	E J PRIOR	LARC		NAS 1 19610	541
99	VA POLYTECH INST & ST UNIV	E J PRIOR	LARC	R MAHAN	NAS 1 96059	541
99	VA POLYTECH INST & ST UNIV	J BARTHELEMY	LARC	B GROSSMAN	NGT 1 52155	542
99	VA POLYTECH INST & ST UNIV	R A HATHAWAY	LARC	D M MOORE	NGT 1 52145	542
99	VANDERBILT UNIV	E T SCHWARTZ	HQ	H M STRAUSS	NGT 40021	478
99	VANDERBILT UNIV	L KEFFER	GSFC	A M STRAUSS	NGT 5 40054	479
99	VANDERBILT UNIV	P ROGERS	HQ	D A WEINTRAUB	NAGW 5145	478
99	VIRGINIA COMMONWEALTH UNIV	D RUSSELL	HQ	J BERLUND	NGT 90174	543
99	VOORHEES COLLEGE	W BALL	LARC	J QIN	NAG 1 1931	470
99	WASHINGTON STATE UNIV	A NURRIDDIN	HQ	J N CHUNG	NGT 5 50138	555
99	WASHINGTON UNIV	B CAMPBELL	GSFC	D A HASKIN	NAG 5 4642	340
99	WASHINGTON UNIV	D E SMITH	GSFC	R J PHILLIPS	NAG 5 4435	339
99	WASHINGTON UNIV	E T SCHWARTZ	HQ	R E ARVIDSON	NGT 40029	342
99	WASHINGTON UNIV	T KOSTIUK	HQ	L A HASKIN	NAGW 5207	342
99	WELLESLEY COLLEGE	J BERGSTRALH	HQ	G STARK	NAGW 5200	311
99	WEST VIRGINIA UNIV	E T SCHWARTZ	HQ	J T JUVEWICZ	NGT 40047	556
99	WEST VIRGINIA UNIV	G ASRAR	GSFC	S KITE	NGT 5 50103	556
99	WEST VIRGINIA UNIV	L EVANS	LARC	J G WELLS	NGT 51370	556

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99	WESTERN ILLINOIS UNIV	D SIX	MSFC	L H TICHENOR	NAG 8 1207	223
99	WESTERN KENTUCKY UNIV	L KEFFER	GSFC	R HACKNEY	NCC 5 222	242
99	WESTERN KENTUCKY UNIV	L KEFFER	GSFC	R HACKNEY	NGT 5 40051	242
99	WESTERN KENTUCKY UNIV	L KEFFER	HQ	R HACKNEY	NCCW 60	242
99	WHEELING JESUIT COLLEGE	A F HASLER	GSFC	R MYERS	NCC 5 107	557
99	WHEELING JESUIT COLLEGE	F DURSO	HQ	T ACKER	NAGW 2486	557
99	WHEELING JESUIT COLLEGE	J ROOT	HQ	L W RIVER	NCCW 65	557
99	WHEELING JESUIT COLLEGE	J ROOT	HQ	L W RIVERS	NCCW 14	557
99	WHEELING JESUIT COLLEGE	M PHELPS	GSFC	D MILLER	NCC 5 203	557
99	WHEELING JESUIT COLLEGE	M V PHELPS	HQ	C D MILLER	NCCW 12	557
99	WINSTON-SALEM STATE UNIV	D RUSSELL	HQ	W ATKINSON	NGT 90050	412
99	XAVIER UNIV – LOUISIANA	D RUSSELL	HQ	E E EDUOK	NAGW 4628	248
99	XAVIER UNIV – LOUISIANA	N SULLIVAN	SSC	I HAMSA	NAG13 53	248
99	YALE UNIV	A NURRIDDIN	HQ	PROBER	NGT 5 50042	156
99	YALE UNIV	G ASRAR	GSFC	P K BARTEN	NGT 5 30046	156
99	YOUNGSTOWN STATE UNIV	F SIX	MSFC	J ALAM	NAG 8 1108	437